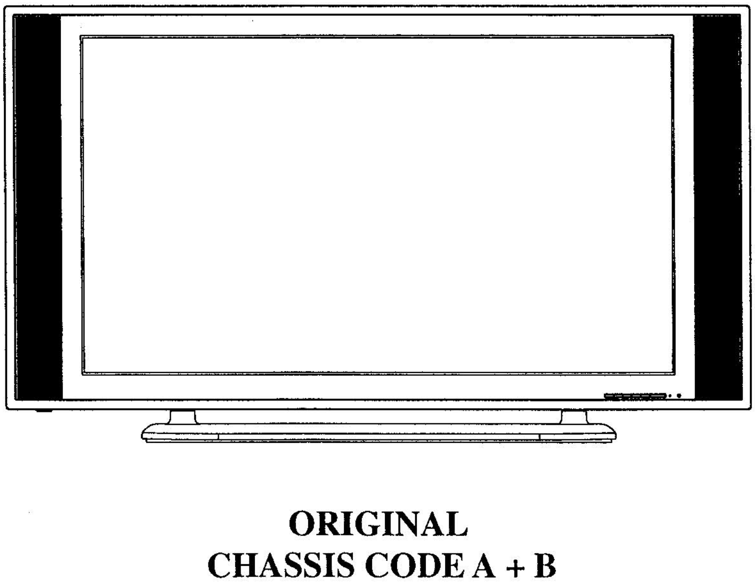
SERVICE MANUAL

ORION

TV-42200SI / TV-42400SI

42" PLASMA COLOR TELEVISION



ORIGINAL
CHASSIS CODE A + B

Best. Nr. SM42200

Design and specifications are subject to change without notice.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

4. BE CAREFUL WITH THE PDP PANEL

1. When you handle the PDP Filter you must wear the gloves twice, because, you are to avoid soil it by your sweat and dust.
2. When you lift the PDP Filter you should hold it with the palm of your hand.
   Don't pick up it with your fingers.
3. The back side of PDP Filter tends to damaged. Since there is no coating.
   Therefore, it put into the packing box at the time of delivery, without piling up even at the time of unused.
   Also, when you take out it from a packing box, be careful of the rubbing.
4. When the surface becomes dirty, wipe it with a soft cloth as you draw a circle.
   When it is dirty hardly, wipe it with a cloth ethanol infiltrated.
   Don't use ethanol for the back side.
5. Do not apply it to direct sunshine so that the characteristic may change.
6. When you inspect the surface (the scratch, the dirt and the air bubble), use the fluorescent light.
7. When you use SCREW DRIVER and SCREW, be careful of a metallic powder being mixed.
8. Do not damage the PDP Module with a DRIVER.
9. Do Handling with the PDP Module by 2 persons.
10. There is a step difference between the cover and PDP Module.
    So, when you remove the screws, place a cushion on it so that the PDP Module is not being scratched.
    Then remove the screws carefully.
11. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
12. Hold the four ends holder and be careful not to touch the glass area.
13. Take care for the damage of vacuum exhaust pipe due to a collision.
14. Moisture condensation may damage the PDP Module.
    So, leave it for 48 hours at the service room.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board.
The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts.
Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades.
And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 2.5M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 2.5M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Screw
21pin jack
Side RCA jack
Rrar RCA jack
Headphone jack

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HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the CHASSIS CODE.)

1. MODEL NUMBER and CHASSIS CODE
   YOU can find it in the back of your unit.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

PANEL LOCK

To unlock the Password of Panel Lock, please follow the steps below.

1. Turn Unit ON.
2. Press and hold the 'VOLUME DOWN' key on the front panel for more than 10 seconds.
3. The Panel Lock has now been cleared.
4. Press and hold the 'VOLUME DOWN' key on the front panel.
5. Simultaneously press and hold the '0' key on the remote control unit.
6. Hold both keys for more than 2 seconds.
7. The Password of Panel Lock has now been cleared.

CONTENTS

SERVICING NOTICES ON CHECKING A1-1
HOW TO ORDER PARTS A1-2
IMPORTANT A1-2
PANEL LOCK A1-2
CONTENTS A2-1
GENERAL SPECIFICATIONS .... A3-1~A3-6

DISASSEMBLY INSTRUCTIONS

1.EXCHANGE METHOD OF PDP MODULE .... B1-1~B1-9
2.REMOVAL AND INSTALLATION OF FLAT PACKAGE IC B2-1, B2-2
SERVICE MODE LIST C-1
CONFIRMATION OF HOURS USED C-1
WHEN REPLACING EEPROM (MEMORY) IC C-2
FUNCTION OF PCB C-3
ELECTRICAL ADJUSTMENTS .... D-1~D-5
TROUBLESHOOTING GUIDE .... E-1~E-5

BLOCK DIAGRAM

MICON/SCALER/ADC/LVDS/JACK/AV_SW1/REGULATOR F-1, F-2
AV SWITCH 2/TUNER/21PIN/STEREO/SOUND AMP F-3, F-4
POWER/SIDE JACK F-5, F-6
INTERFACE BLOCK DIAGRAM F-7, F-8
MICON2 BLOCK DIAGRAM F-9, F-10

PRINTED CIRCUIT BOARDS

AV/OPERATION/TUNER/POWER SW/SIDE JACK .... G-1~G-4
SCALER G-5, G-6
HD-MI/FILTER G-7, G-8

SCHEMATIC DIAGRAMS

AV SWITCH 2 .... H-1, H-2
21PIN H-3, H-4
STEREO H-5, H-6
POWER H-7, H-8
OPERATION/SIDE JACK/POWER SWITCH H-9, H-10
21PIN(3SCART) H-11, H-12
SOUND AMP/HEADPHONE AMP H-13, H-14
TUNER H-15, H-16
MICON H-17, H-18
SCALER H-19, H-20
ADC H-21, H-22
LVDS H-23, H-24
JACK H-25, H-26
AV SWITCH 1 .... H-27, H-28
REGULATOR H-29, H-30
POWER FILTER H-31, H-32
INTERFACE H-33, H-34
MICON2 .... H-35, H-36
WAVEFORMS .... I-1~I-3
MECHANICAL EXPLODED VIEW J-1, J-2
MECHANICAL REPLACEMENT PARTS LIST K1-1
ELECTRICAL REPLACEMENT PARTS LIST .... K2-1~K2-3

GENERAL SPECIFICATIONS

G-1	**TV System**	PDP	PDP Size / Visual Size	42.32 inch / 1074.9 mmV
			Number of Pixels(H x V)	1024(H) x 768(V)
		Color System		PAL/SECAM
		Speaker		2 Speaker
			Position	Front Side
			Size	2.2 x 5.0 inch
			Impedance	4 ohm
		Sound Output	MAX	10W + 10W
			10%(Typical)	---
		NTSC3.58+4.43 /PAL60Hz		Yes
G-2	**Tuning System**	Broadcasting System		U.K., I.R., CCIR, FRENCH System B/G, D/K, I/I, L
		Tuner and Receive CH	System	1Tuner
			Destination	UK, I.R., CCIR Hyper+France CATV
			CH Coverage	IreE2~E4,X~Z+2,S1~S10,E5~E12, S11~S41,E21~E69
		Intermediate Frequency		PAL/SECAM(U&VH)/SECAM(VL)
			Picture(FP)	38.9/38.9/33.9MHz
			Sound(FS)	33.4/32.9/32.4/40.4MHz
			FP-FS	5.5/6.0/6.5/6.5MHz
		Auto Tuning Method		ALL Band (Not C.C.I.R. CH Plan)
		Preset CH		80
		Stereo/Dual TV Sound		NICAM/A2 Dual
		Tuner Sound Muting		Yes
G-3	**Power**	Power Source	AC	230V AC 50Hz
			DC	---
		Power Consumption	at AC	350 W at AC 230 V 50 Hz
			at DC	--
			Stand by (at AC)	2 W at 230V 50Hz
			Per Year	-- kWh/Year
		Protector	Power Fuse	Yes
			Safety Circuit	Yes
			IC Protector(Micro Fuse)	No
G-4	**Regulation**		Safety	CE(EN60065:98)
			Radiation	CE
			X-Radiation	---
G-5	**Temperature**		Operation	+5oC ~ +40oC
			Storage	-20oC ~ +60oC
G-6	**Operating Humidity**			Less than 80% RH

GENERAL SPECIFICATIONS

G-7	**On Screen Display**	Menu (TV)			Yes	
			Menu Type		Icon	
			Picture		Yes	
				Brightness	Yes	
				Contrast	Yes	
				Color	Yes	
				Tint (NTSC Only)	Yes	
				Sharpness	Yes	
				DNR ON/OFF	Yes	
				Color Temperature	Yes	
				Blue Back	Yes	
			Audio		Yes	
				NICAM AUTO/OFF	Yes	
				Bass	Yes	
				Treble	Yes	
				Balance	Yes	
				Surround ON/OFF		No
				BBE	Yes	
				Speakers ON/OFF	Yes	
				HDMI	Yes	
			Setup		Yes	
				Auto Tuning	Yes	
				Manual Tuning	Yes	
				CH Allocation	Yes	
				BACKLIGHT		No
				Language	Yes	
				Text Language	Yes	
				Position (Vertical Position)		No
				AUTO 4:3 DEFAULT	Yes	
				AV2 Output	Yes	
				AV2 Input	Yes	
				AV Color	Yes	
				Inversion		No
				Full White	Yes	
				Screen Saver	Yes	
				Brightness Reduce	Yes	
			Option		Yes	
				On Timer		No
				Off Timer		No
				Panel Lock	Yes	
		Menu (PC)			Yes	
			Picture		Yes	
				BRIGHTNESS	Yes	
				CONTRAST	Yes	
				HOR POSITION	Yes	
				VER POSITION	Yes	
				PHASE	Yes	
				CLOCK	Yes	
				AUTO ADJUST		No
				RED	Yes	
				GREEN	Yes	
				BLUE	Yes	
				WXGA INPUT	Yes	
				WVGA INPUT	Yes	
			Audio		Yes	
				Bass	Yes	
				Treble	Yes	
				Balance	Yes	
				Surround ON/OFF		No
				BBE	Yes	
				Speakers	Yes	

GENERAL SPECIFICATIONS

		Control Level		Yes
			Volume	Yes
			Brightness	Yes
			Contrast	Yes
			Color	Yes
			Tint (NTSC Only)	Yes
			Sharpness	Yes
			Tuning	Yes
			Bass	Yes
			Treble	Yes
			Balance	Yes
			H Position	Yes
			V Position	Yes
			PHASE	Yes
			CLOCK	Yes
			Red	Yes
			Green	Yes
			Blue	Yes
			Backlight	No
		Nicam ST		Yes
		Tone 1/2		Yes
		Pin Code		No
		FREEZE		No
		CH/AV/PC		Yes
		Hotel Lock		No
		Wide Mode		Yes
		Sleep Timer		Yes
		Sound Mute		Yes
		Input Select		Yes
G-8	**OSD Language**			English French Spanish German Italian Russian
G-9	**Clock and Timer**	Sleep Timer	Max Time	120 Min
			Step	10 Min
		On/Off Timer	Program(On Timer / Off Timer)	No
		Wake Up Timer		No
		Timer Back-up (at Power Off Mode)	more than	-- Min Sec

GENERAL SPECIFICATIONS

G-10	**Remote Control**	Unit		RC-MB
		Glow in Dark Remocon		Yes
		Remocon Format		ORION
		Format		NEC
		Custom Code		80-63 h
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-4 x 2 pcs
		Total Keys		32
		Keys	Power (Stand By)	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			CH Up	No
			CH Down	No
			Volume Up / Right	Yes
			Volume Down / Left	Yes
			Quick View	No
			Sleep	Yes
			Display (CH Call)	Yes
			Normal	No
			Menu	Yes
			Enter	Yes
			Mute	Yes
			Dolby Virtual On/Off	No
			Picture Size	Yes
			Auto	No
			Position	No
			Fine Tuning +	No
			Fine Tuning -	No
			Tone 1/2	No
			Input Select	Yes
		T'TEXT Keys	TEXT / MIX / TV	Yes
			CH Up / Page Up / Up	Yes
			CH Down / Page Down / Down	Yes
			Red	Yes
			Green	Yes
			Yellow	Yes
			Cyan	Yes
			F/T/B(Expand) / Normal	Yes
			Reveal / Skip	Yes
			Display Cancel	No
			Reset	No
			Reset / Tone 1/2	Yes
			Hold / Status	Yes
			Sub Page / Quick View	Yes

GENERAL SPECIFICATIONS

G-11	**Features**	Auto Shut Off		Yes
		BBE		Yes(Digital)
		Auto Search		Yes
		CH Allocation		Yes
		Channel Lock		No
		Just Clock Function		No
		Game Position		No
		CH Label		No
		T'Text		Yes
			Text type	Fastext / Toptext
			Text Language	English , French, Swedish, Hungarian Finnish, Turkish, German, Dutch Portuguese, Spanish, Italian, Greek Polish, Russian, Bulgarian, Serbian, Croatian, Slovene, Czech, Slovakian, Rumanian.
		Wide Mode		Yes
		Picture Scroll		No
		DNR		Yes 3D
		Comb Filter		Yes 5 Lines
		Surround		No
		Backlight		No
		Stable Sound		No
		PFC(Power Factor circuit)		Yes
		Auto Set Up		No
		Power On Memory		Yes
		Hotel Lock		No
		PC Monitor Input		Yes
		Freeze frame		No
		HD-Ready		Yes
G-12	**Accessories**	Owner's Manual	Language	German/Czech/French/Dutch
			w/Guarantee Card	Yes
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	-
			Terminal	-
		Loop Antenna (W/ Antenna Change Plug)		No
			Terminal	-
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Dew/AHC Caution Sheet		No
		Quick Set-up Sheet		No
		Battery		Yes
			UM size x pcs	UM-4 x 2 pcs
			OEM Brand	No
		AC Adapter		No
		AC Cord (for AC Adapter)		No
		AC Cord		Yes
		AV Cord (2Pin-1Pin)		No
		HDMI-DVI Cable		Yes
		Registration Card		No
		300 ohm to 75 ohm Antenna Adapter		No

GENERAL SPECIFICATIONS

G-13	**Interface**	Switch	FRONT	Sub Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up/Menu Up	Yes
				Channel Down/Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select	Yes
				Menu	No
			REAR	Main Power SW	Yes
		Indicator		Power / Stand-by	Yes(GREEN / RED)
				On Timer	No
		Terminals	Rear	Video Input	No
				Audio Input	No
				S- Input	No
				Video Output	No
				Audio Output	RCA x 2(Variable L, R)
				Component In	RCA x 3
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				Other Terminal	No
				Euro Scart (21Pin)	3Scart
				HDMI Input	Yes
				Audio Input (HDMI/DVI In use)	RCA x 2 (L/MONO, R)
				Sub Woofer Out	No
				PC Monitor Input (D-Sub)	Yes
				Audio Input	Mini Jack x 1(Stereo)
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				VHF/UHF Antenna Input	DIN Type
				AC Inlet	Yes
			Side	Video Input	RCA x 1
				Audio Input	RCA x2(L/MONO,R)
				S- Input	Yes
				Other Terminal	Headphone
G-14	**Set Size**			Approx. W x D x H (mm)	1,210 x 340 x 716.5
				w/o Stand Approx. W x D x H (mm)	1,210 x 115 x 658
G-15	**Weight**			Net (Approx.)	41.5kg (91.5 lbs)
				Net w/o Stand (Approx.)	36.5kg (80.5 lbs)
				Gross (Approx.)	48.5kg (106.9 lbs)
G-16	**Carton**		Master Carton		No
				Content	--- Sets
				Material	--- / ---
				Dimensions W x D x H(mm)	---
				Description of Origin	---
			Gift Box	Material	Double/Brown
				Dimensions W x D x H(mm)	1,320 x 435 x 820
				Description of Origin	No
			Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
				Height (cm)	25
			Container Stuffing		90 Sets/40' container
G-17	**Material**		Cabinet	Cabinet Front	ABS 94HB
				Cabinet Rear	Steel
			PCB	Non-Halogen	No
				Eyelet	Yes
G-18	**Environment**		Environmental standard requirement		Green procurement of ORION
			Pb-free		Phase3(Phase3A)
			WEEE		Yes

DISASSEMBLY INSTRUCTIONS

1. EXCHANGE METHOD OF PDP MODULE

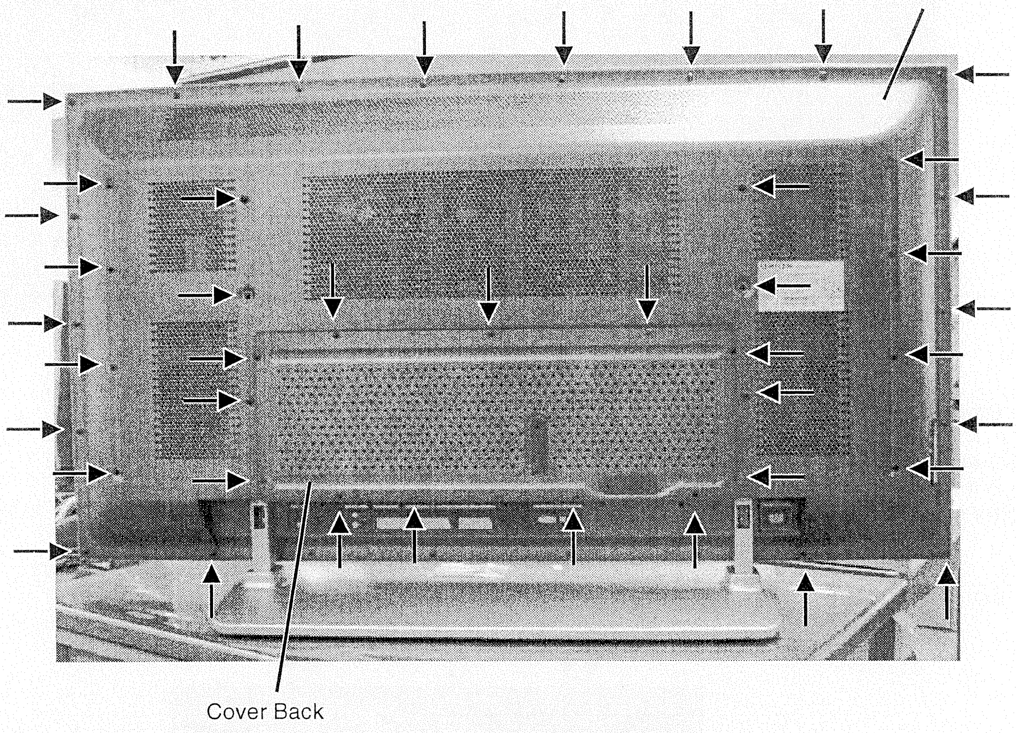
NOTE

1. Do handling with the PDP Module by 2 persons.

REMOVAL METHOD OF PDP MODULE

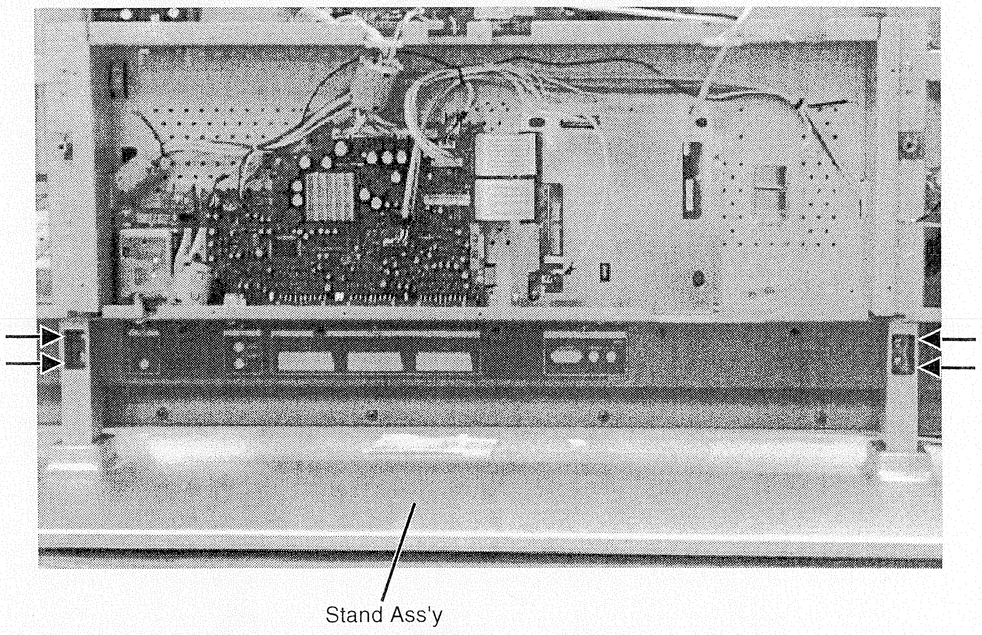
1-1: CABINET BACK/COVER BACK

1. Remove the screw.
2. Remove the Cabinet Back and Cover Back.



1-2: STAND ASS'Y

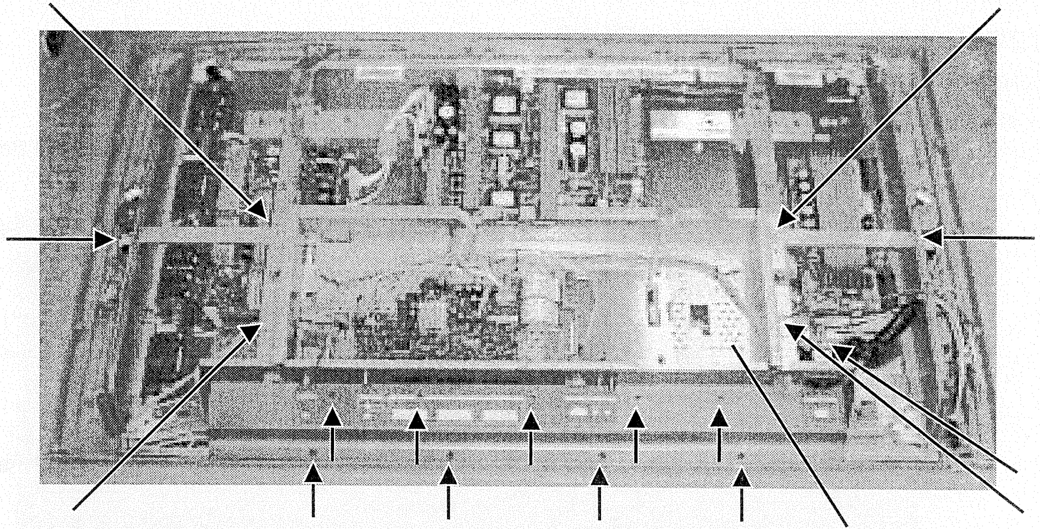
1. Spread a sheet on the plane table and place the PDP Module carefully with the panel face down.
2. Remove the screw.
3. Remove the Stand Ass'y.



DISASSEMBLY INSTRUCTIONS

1-3: CHASSIS BLOCK

1. Disconnect the connector.
2. Remove the screw.
3. Remove the Chassis Ass'y.

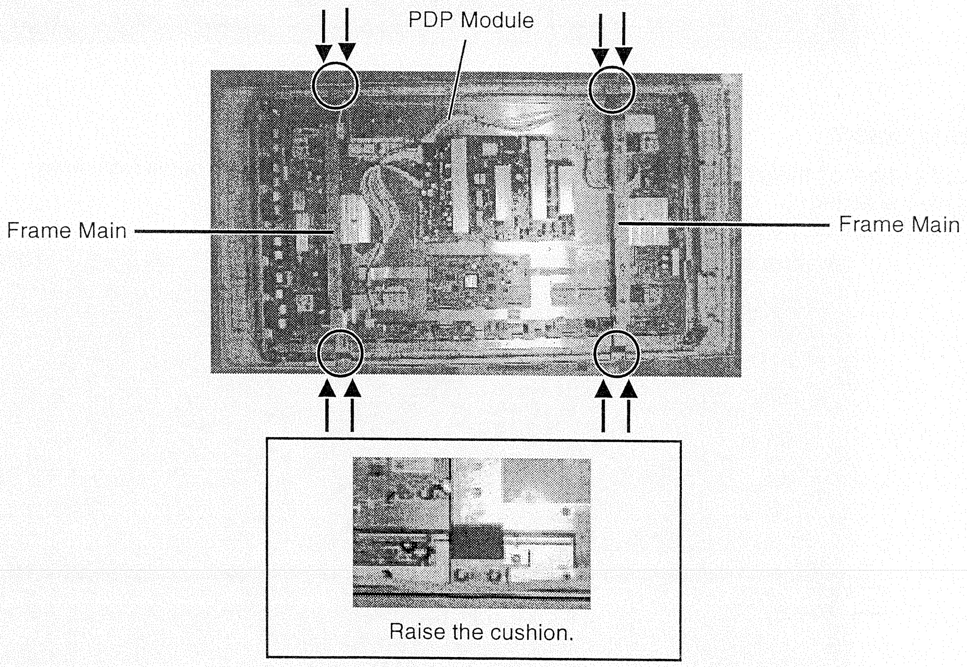

Chassis Ass'y

1-4: PDP MODULE

1. Remove the Tape.
2. Remove the screw.
3. Hold the Frame Main carefully and remove the PDP Module.

NOTE

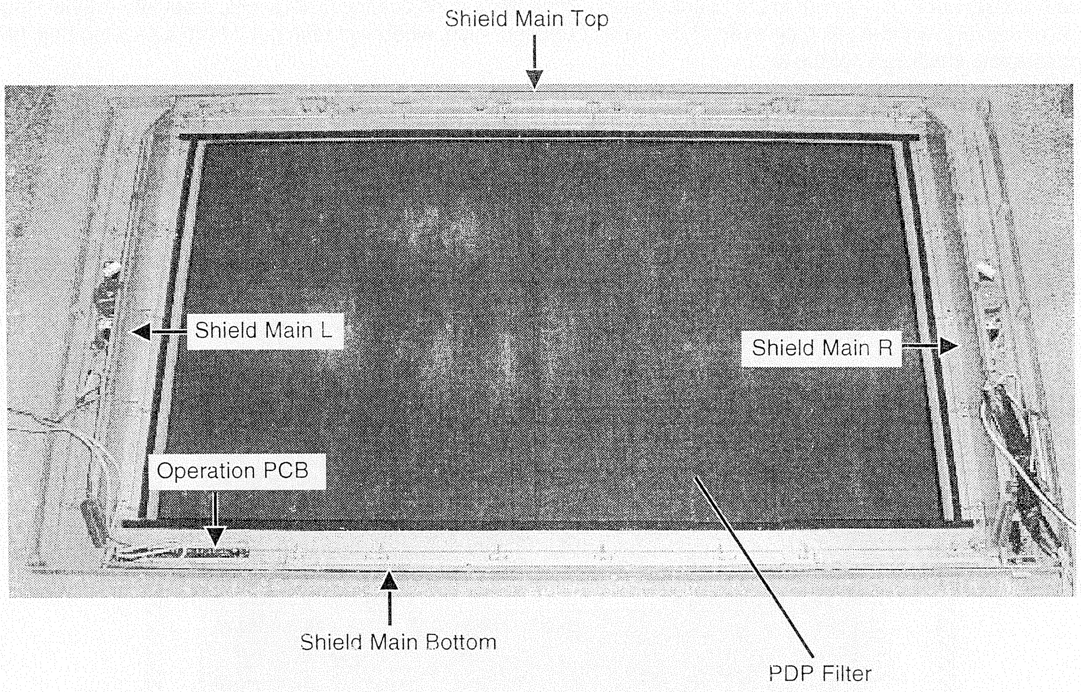
1. When remove the PDP Module, raise the cushion carefully so that having a scratch on the face.


PDP Module
Frame Main
Frame Main
Raise the cushion.

DISASSEMBLY INSTRUCTIONS

1-5: PDP FILTER

1. Remove the Operation PCB.
2. Remove the screw.
3. Remove the Shield Main.
4. Remove the PDP Filter.


Shield Main Top
Shield Main L
Shield Main R
Operation PCB
Shield Main Bottom
PDP Filter

DISASSEMBLY INSTRUCTIONS

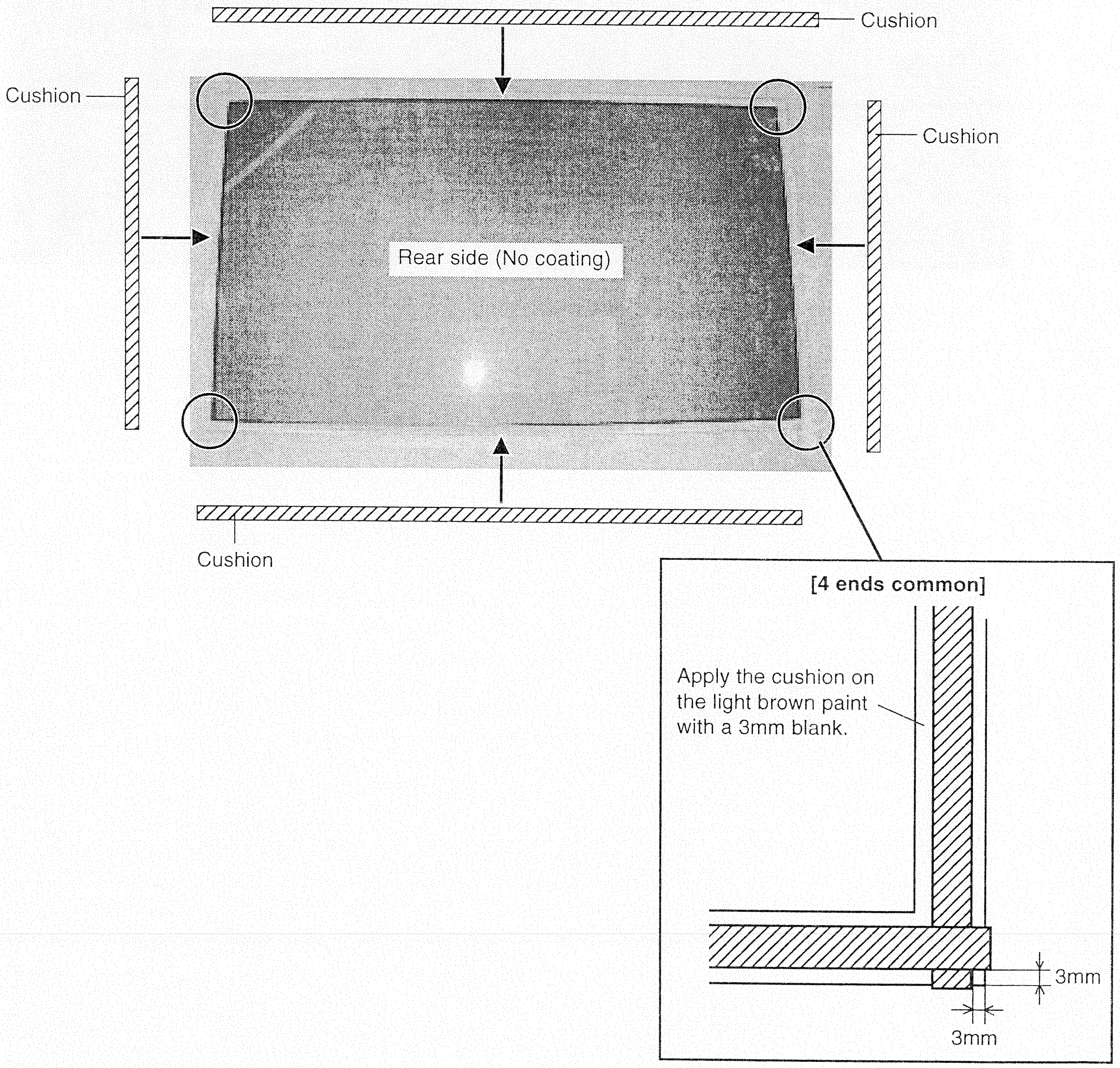
INSTALLATION METHOD OF PDP MODULE

NOTES FOR NEW PDP FILTER HANDLING

1. When you handle the PDP Filter you mast wear the gloves twice, because, you are to avoid soiling it by your sweat and dust.
2. When you lift the PDP Filter you put it between the palm of your hand. Don't pick up it with your fingers.
3. The back side of PDP Filter tends to set damaged. Since there is no coating. There fore, it put into the packing box at the time of delivery, without piling up even at the time of unused. Also, when you take out it from a packing box, be careful of the appearance which can not rub it.
4. When the surface becomes dirty, be the cloth out of which it is soft and dust does not come, and as you draw a circle, wipe it. When hard dirty, infiltrate ethanol etc. into cloth lightly and wipe. Don't use ethanol for the back side.
5. Do not apply it to direct sunshine so that the characteristic may change.
6. When you inspect the scratch and the dirt, the air bubble of the PDP Filter surface that use the light.

1-6: PDP FILTER (PREPARATION)

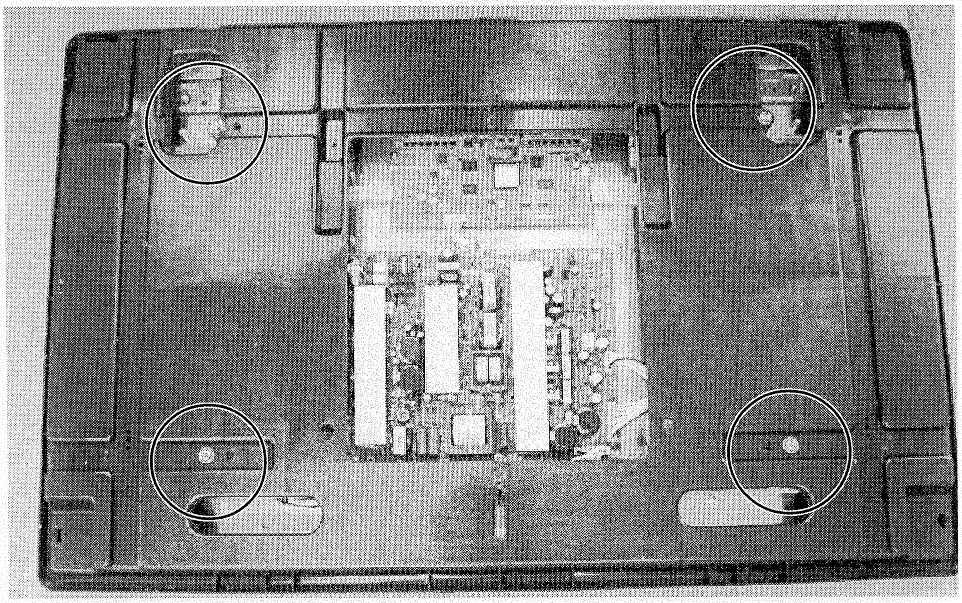
1. Fix the Cusion. (Order the cushion newly.)

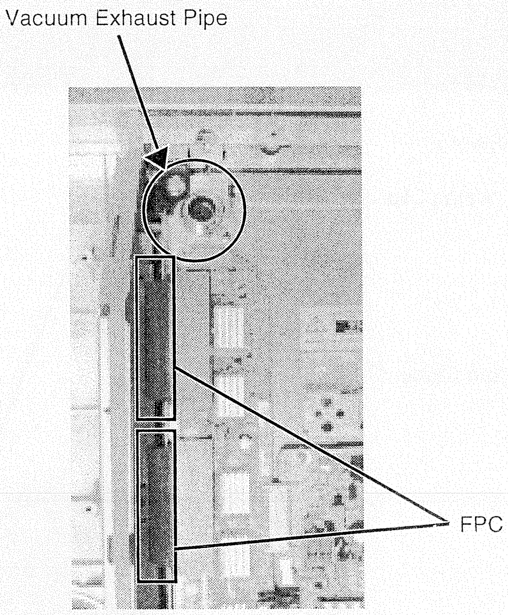

Cushion
Cushion
Cushion
Rear side (No coating)
Cushion
[4 ends common]
Apply the cushion on the light brown paint with a 3mm blank.
3mm
3mm

DISASSEMBLY INSTRUCTIONS

NOTES FOR NEW PDP MODULE HANDLING

1. Do the PDP Module Handling by 2 persons.
2. There is a step difference between the cover and PDP Module. So, when you remove the screws, place a cushion on it so that the PDP Module is being scratched. Then remove the screws carefully.
3. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
4. Hold the four ends holder and be careful not to touch the glass area.
5. Take care for the damage of vacuum exhaust pipe due to a collision.
6. Moisture condensation may damage the PDP Module. So, leave it for 48 hours at the service room.
7. Re-use the cover, vinyl sheet, and screws for returning of the PDP Module.

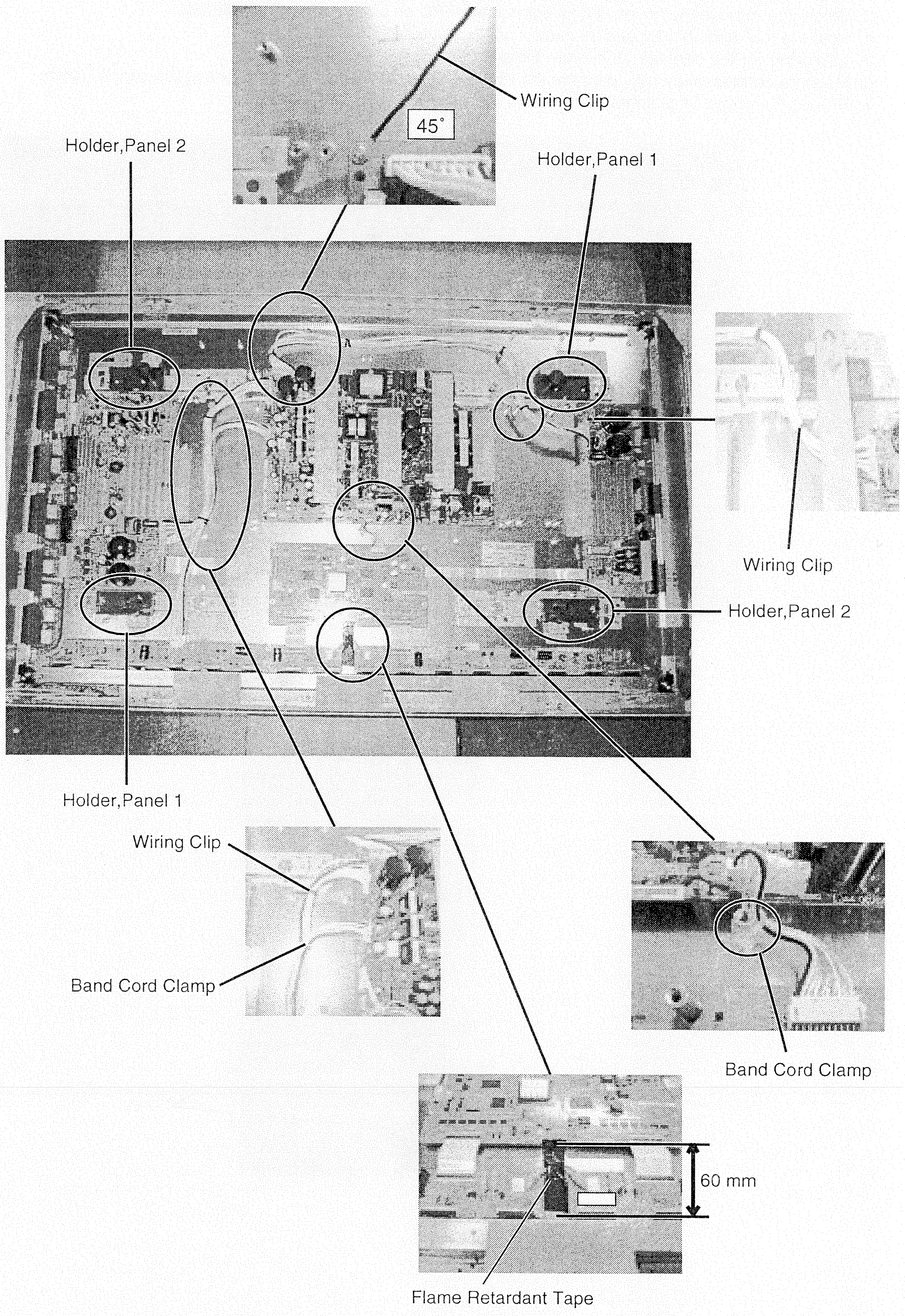




DISASSEMBLY INSTRUCTIONS

1-7: PDP MODULE (PREPARATION)

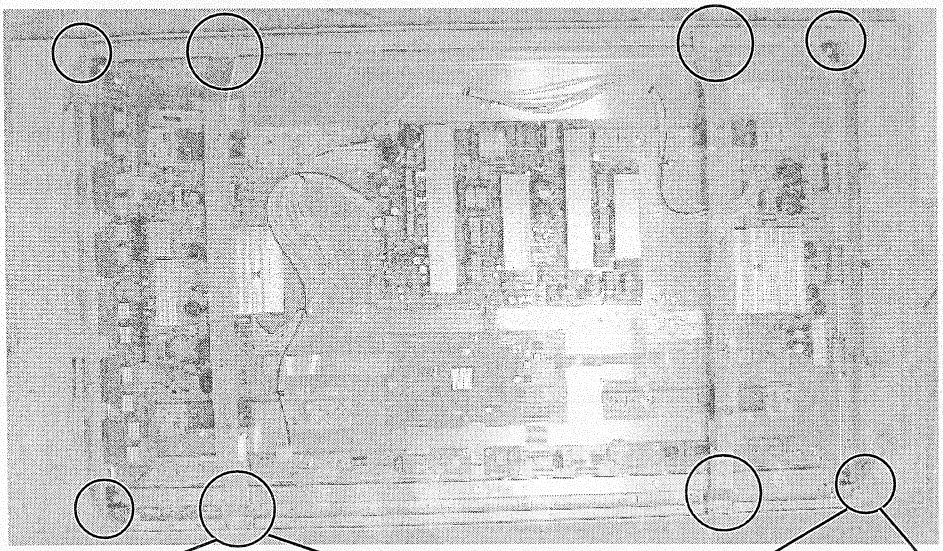
1. Remove the fixing screw of Power PCB. Then fix the Wiring Clip. (Use the clipson defective PDP Module)
2. Fix the Holder Panel 1/2/3/4. (Use the clipson defective PDP Module)
3. Fix the Wiring Clip. (Use the clipson defective PDP Module)


Wiring Clip
45˚
Holder,Panel 2
Holder,Panel 1
Wiring Clip
Holder,Panel 2
Holder,Panel 1
Wiring Clip
Band Cord Clamp
Band Cord Clamp
60 mm
Flame Retardant Tape

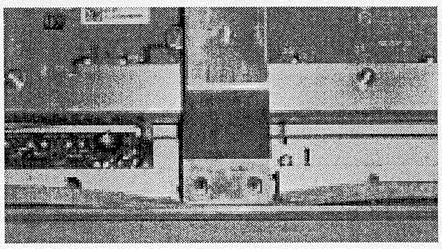
DISASSEMBLY INSTRUCTIONS

1-8: PDP MODULE

1. Fix the Frame Main. (Use the clipson defective PDP Module)
2. Install the PDP Filter on the set.
3. Install the Shield Main on the set.
4. Hold the Frame Main carefully and install the New PDP Module on the set.

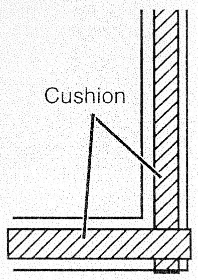


[NG]



No mesh of the cushion (For all 4 positions)

[4 ends common]

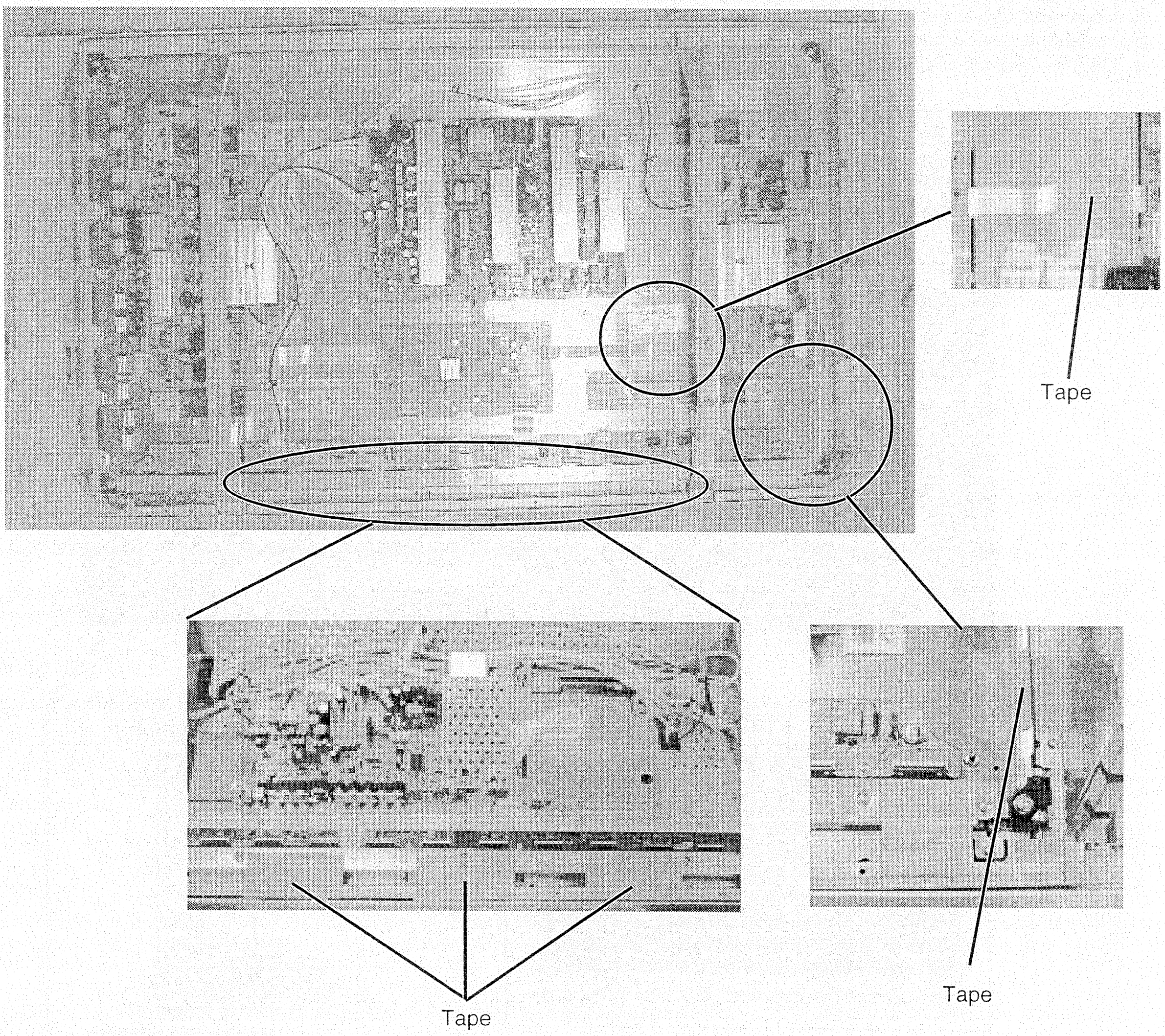


Pile up the cushion.

DISASSEMBLY INSTRUCTIONS

1-9: TAPE

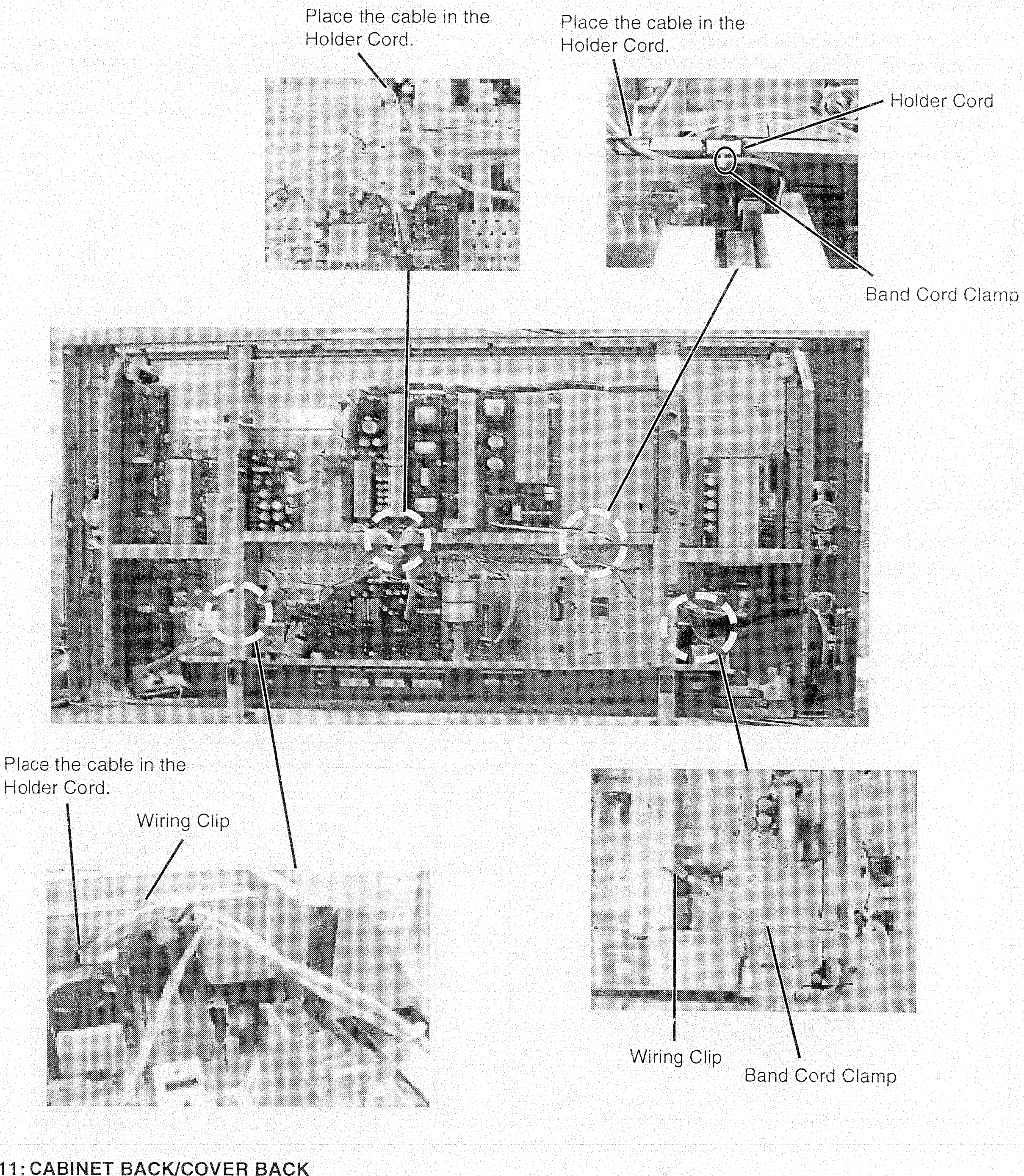
1. Stick the tapes on the position as shown the photo. (Order the tape newly.)


Tape
Tape
Tape

DISASSEMBLY INSTRUCTIONS

1-10: CHASSIS BLOCK

1. Do the wire fixing as shown the photo, then install the Chassis Ass'y.
2. Install the Stand Ass'y.


Place the cable in the Holder Cord.
Place the cable in the Holder Cord.
Holder Cord
Band Cord Clamp
Place the cable in the Holder Cord.
Wiring Clip
Wiring Clip
Band Cord Clamp

1-11: CABINET BACK/COVER BACK

1. Check if the wire handlings are correct.
2. Check if the cushion pastings are correct.
3. Check if the tape pastings are correct.
4. Install the Cabinet Back and Cover Back.

DISASSEMBLY INSTRUCTIONS

2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage.
   (Refer to Fig. 2-1.)

   NOTE

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

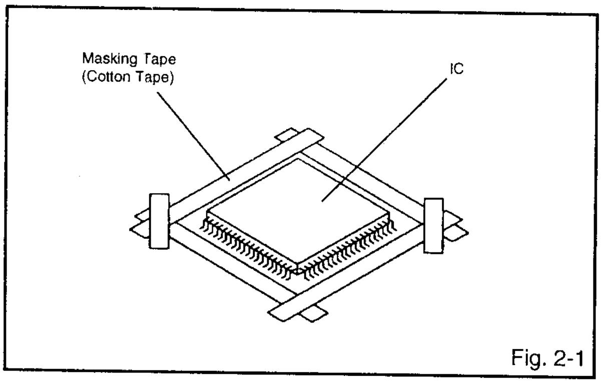

Masking Tape
(Cotton Tape)
IC

Fig. 2-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 2-2.)**

   NOTE

   Do not rotate or move the IC back and forth , until IC can move back and forth easily after desoldering the leads completely.

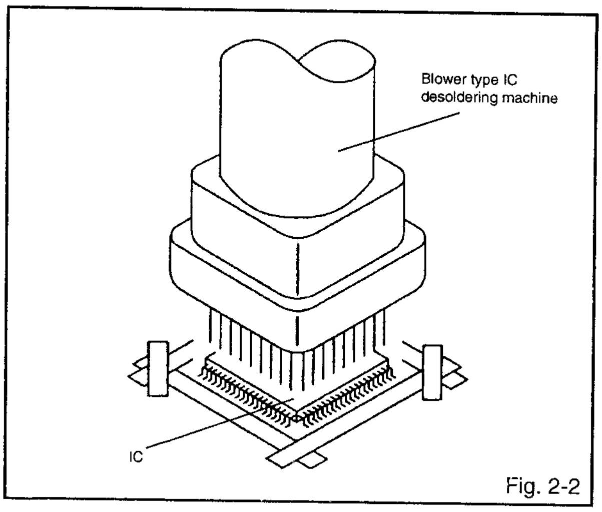

Blower type IC desoldering machine
IC

Fig. 2-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 2-3.)**

   NOTE

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

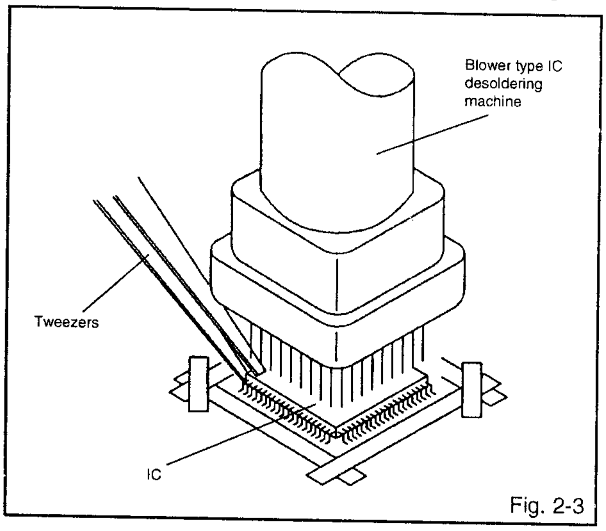

Blower type IC desoldering machine
Tweezers
IC

Fig. 2-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 2-4.)**

   NOTE

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

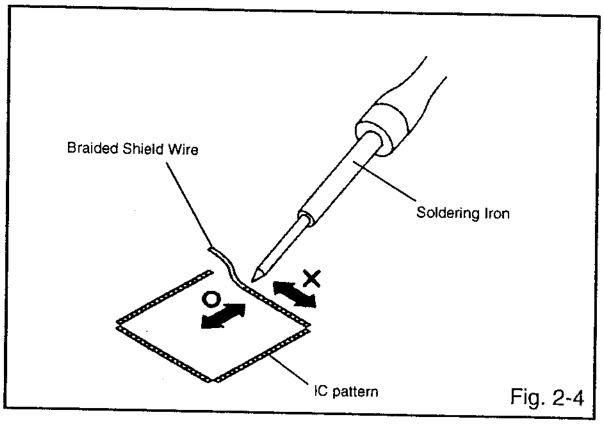

Braided Shield Wire
Soldering Iron
O
X
IC pattern

Fig. 2-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 2-5.)**

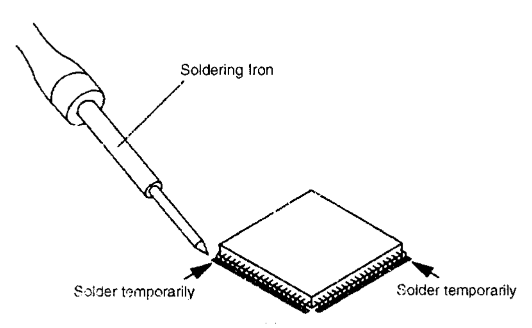

Soldering Iron
Solder temporarily
Solder temporarily

Fig. 2-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 2-6.)**

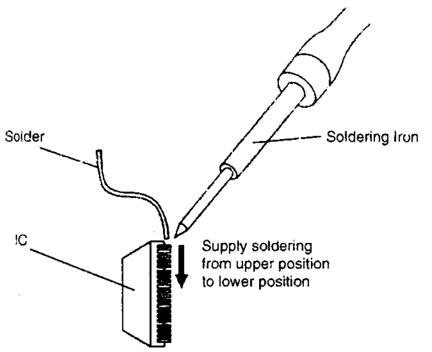

Solder
Soldering Iron
IC
Supply soldering from upper position to lower position

Fig. 2-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 2-7.)**

   NOTE

   Do not absorb the solder to excess.

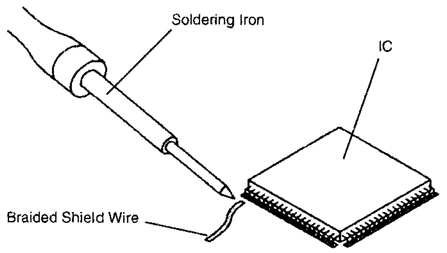

Soldering Iron
IC
Braided Shield Wire

Fig. 2-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 2-8.)**

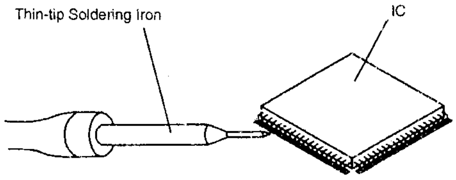

Thin-tip Soldering Iron
IC

Fig. 2-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

   NOTE

   When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than the standard time in the appropriate condition. (See below chart.)

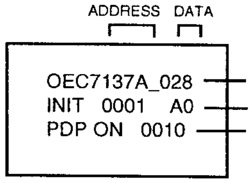
Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Reset the user setting items (PICTURE, AUDIO, VOLUME, LANGUAGE and NICAM AUDO/OFF) to the initial state for delivery.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
TV mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Refer to the "PREVENTIVE CHECKS AND SERVICE INTERVALS" (CONFIRMATION OF HOURS USED). Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

CONFIRMATION OF HOURS USED

POWER ON total hours can be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds.
4. After the confirmation of using hours, turn off the power.



```
OEC7137A_028
INIT  0001   A0
PDP ON  0010
```

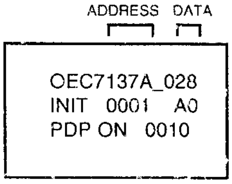
FIG. 1

- MICON Version
- Initial setting content of MEMORY IC.
- POWER ON total hours.
  = (16 x 16 x 16 x thousands digit value)
  + (16 x 16 x hundreds digit value)
  + (16 x tens digit value)
  + (ones digit value)

WHEN REPLACING EEPROM (MEMORY) IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 1.



OEC7137A_028
INIT 0001 A0
PDP ON 0010

FIG. 1

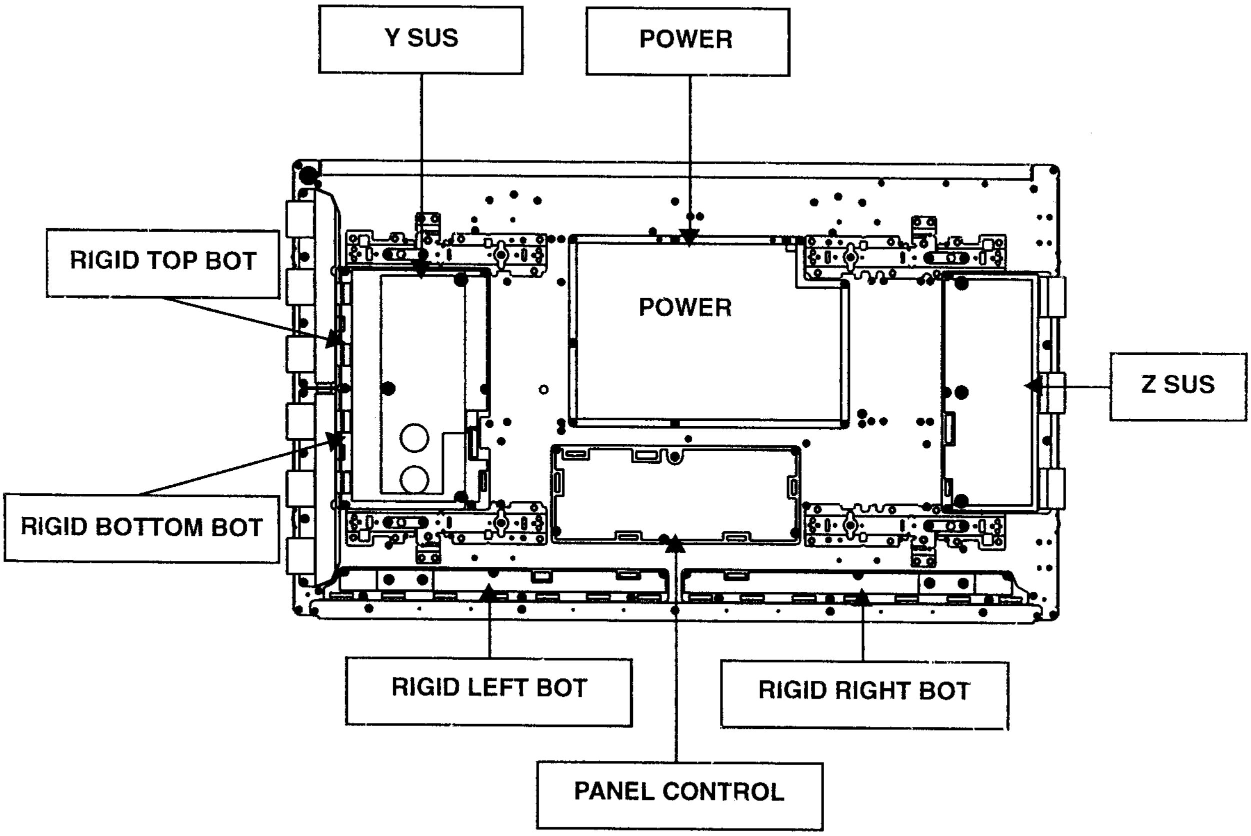
4. ADDRESS is now selected and should "blink". Using the RIGHT/LEFT button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using RIGHT/LEFT button until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.
   After the data input, set to the initializing of shipping.
10. Turn on the POWER, and set to the TV mode.
11. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
12. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	...	A0	CA	E0	74	3C	02	E4	CA	EA	FE	F0	90	80	00	11
10	0D	00	00	00	EA	30	30	10	01	00	80	50	03	03	4F	08
20	00	00	7F	42	40	6D	4D	03	0B	30	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	00	98	00	20
40	00	01	00	FF	F0	F0	F8	00	00	00	00	00	00	00	00	0D
50	05	70	33	03	1F	24	41	44	5D	62	45	03	00	00	20	00
60	00	20	00	00	20	00	01	FE	8B	93	82	8A	FE	FF	3A	3D
70	3E	48	4A	4C	52	57	58	5A	5B	5D	5F	60	61	62	63	64
80	65	65	66	66	67	67	68	68	69	69	6A	6A	6B	6B	6C	6C
90	6D	6D	6E	6E	6F	6F	70	70	71	71	72	72	73	73	74	75
A0	3A	3D	3E	48	4A	4C	52	57	58	5A	5B	5D	5F	60	61	62
B0	63	64	65	65	66	66	67	67	68	68	69	69	6A	6A	6B	6B
C0	6C	6C	6D	6D	6E	6E	6F	6F	70	70	71	71	72	72	73	73
D0	74	75	E3	E3	E3	E3	E3	0F	08	00	01	00	2C	13	74	6C
E0	A4	D4	C1	3C	F6	8C	84	84	00	00	15	15	92	92	73	1E
F0	01	B7	01	00	60	86	0C	01	25	09	2A	09	00	00	30	06

Table 1

FUNCTION OF PCB



POWER : A supplier which supplies voltage and current to each PCB and Panel.

Y SUS : According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Y electrode through Scan Driver IC of RIGID TOP BOT and RIGID BOTTOM BOT.

Z SUS : According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Z electrode through Connector.

PANEL CONTROL : Controls Y electrode, Z electrode, and ADDRESS electrode.

RIGID LEFT BOT : Generates Address electrode and supplies to Address electrode by Driver IC.

RIGID RIGHT BOT : Generates Address electrode and supplies to Address electrode by Driver IC.

RIGID TOP BOT : Generates Scan electrode and supplies to Y electrode by Driver IC.

RIGID BOTTOM BOT : Generates Scan electrode and supplies to Y electrode by Driver IC.

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease **(YG6260M)** on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

2. BASIC ADJUSTMENTS

On-Screen Display Adjustment

1. Set the VOLUME to minimum.
2. Press the VOL. DOWN button on the set and the channel button **(9)** on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in **Fig. 2-1**.

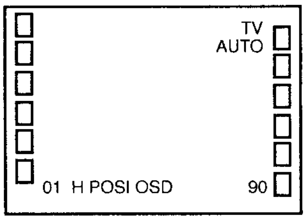


Fig. 2-1

3. Use the Channel UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 2-2**.
4. Press the MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for AV, HD-MI, COMPONENT and PC mode, press the INPUT SELECT button on the remote control to set to the AV, HD-MI, COMPONENT and PC mode.
   Press the VOL.DOWN button on the set and the channel **(9)** on the remote control for more than 2 seconds.

NO.	FUNCTION	NO.	FUNCTION
01	H POSI OSD	29	BRIGHT MAX
02	V POSI OSD	30	BRIGHT MIN
03	R DRIVE (N)	31	TINT
04	R CUT OFF (N)	35	CONTRAST CENTER
05	G DRIVE (N)	36	CONTRAST MAX
06	G CUT OFF (N)	37	CONTRAST MIN
07	B DRIVE (N)	38	COLOR CENT
08	B CUT OFF (N)	39	COLOR MAX
09	R DRIVE (C)	40	COLOR MIN
10	R CUT OFF (C)	41	H POSI TEXT
11	G DRIVE (C)	42	V POSI TEXT
12	G CUT OFF (C)	46	RGB BRIGHT CENT
13	B DRIVE (C)	47	RGB BRIGHT MAX
14	B CUT OFF (C)	48	RGB BRIGHT MIN
15	R DRIVE (W)	49	RGB CONTRAT CENT
16	R CUT OFF (W)	50	RGB CONTRAT MAX
17	G DRIVE (W)	51	RGB CONTRAT MIN
18	G CUT OFF (W)	52	RGB COLOR CENT
19	B DRIVE (W)	53	RGB COLOR MAX
20	B CUT OFF (W)	54	RGB COLOR MIN
21	H POSI 50Hz	58	RGB V POSI 50Hz
22	H POSI 60Hz	59	RGB V POSI 60Hz
23	V POSI 50Hz	60	RGB H POSI 50Hz
24	V POSI 60Hz	61	RGB H POSI 60Hz
28	BRIGHT CENT		

Fig. 2-2

2-1: CONTRAST CENT

1. Receive the monoscope pattern.(RF Input)
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
3. Check if the step No. CONT CENT is "125".
4. Receive a broadcast and check if the picture is normal.
5. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 1~2.
6. Check if the step No. CONT CENT is "100".
7. Receive a broadcast and check if the picture is normal.
8. Receive a RGB signal.
   (Ex. By the DVD PLAYER, it's the RGB mode setting.)
9. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(49)** on the remote control to select "RGB CONTRAST CENT".
10. Check if the step No. CONT CENT is "98".
11. Receive a broadcast and check if the picture is normal.
12. Playback the DVD disc. (480i input)
13. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
14. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
15. Check if the step No. CONT CENT is "102".
16. Receive a broadcast and check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-2: WHITE BALANCE

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Press the INPUT SELECT button on the remote control to set to the AV mode.
4. Using the remote control, set the brightness and contrast to normal position.
5. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(03)** on the remote control to select "R DRIVE".
6. Press the CH. UP/DOWN button on the remote control to select the "R CUTOFF", "G.DRIVE", "G CUTOFF", "B.DRIVE" and "B CUTOFF".
7. Adjust the VOL. UP/DOWN button on the remote control to whiten the R CUTOFF, G.DRIVE, G CUTOFF, B.DRIVE and B CUTOFF at each step tone sections equally.
8. Perform the above adjustments 6 and 7 until the white color is looked like a white.

2-3: BRIGHT CENT

1. Receive the monoscope pattern. (RF Input)
2. Set the screen mode to FULL.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(28)** on the remote control to select "BRIGHT CENT".
5. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.
6. Receive the monoscope pattern.
7. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 2~5.
8. Receive the monoscope pattern. (RGB signal Input)
9. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(46)** on the remote control to select "RGB BRIGHT CENT".
10. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.
11. Playback the DVD disc. (480i input)
12. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
13. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(23)** on the remote control to select "V POSI 50Hz".
14. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.

2-4: Confirmation of Fixed Value (Step N0.)

Please check if the values of each the adjustment items are set correctly referring below.

		TV		AV		RGB	
NO.	FUNCTION	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
1	H POSI OSD	0x338/0x339	174	0x338/0x339	174	0x360/0x361	174
2	V POSI OSD	0x33A/0x33B	85	0x33A/0x33B	85	0x35E/0x35F	85
3	R DRIVE (N)	0x300/0x301	136	0x300/0x301	136	0x37E/0x37F	136
4	R CUT OFF (N)	0x302/0x303	125	0x302/0x303	125	0x380/0x381	125
5	G DRIVE (N)	0x304/0x305	128	0x304/0x305	128	0x382/0x383	128
6	G CUT OFF (N)	0x306/0x307	128	0x306/0x307	128	0x384/0x385	128
7	B DRIVE (N)	0x308/0x309	142	0x308/0x309	142	0x386/0x387	142
8	B CUT OFF (N)	0x30A/0x30B	131	0x308/0x309	131	0x388/0x389	131
9	R DRIVE (C)	0x366/0x367	129	0x366/0x367	129	0x38A/0x38B	129
10	R CUT OFF (C)	0x368/0x369	128	0x368/0x369	128	0x38C/0x38D	128
11	G DRIVE (C)	0x36A/0x36B	128	0x36A/0x36B	128	0x38E/0x38F	128
12	G CUT OFF (C)	0x36C/0x36D	128	0x36C/0x36D	128	0x390/0x391	128
13	B DRIVE (C)	0x36E/0x36F	147	0x36E/0x36F	147	0x392/0x393	147
14	B CUT OFF (C)	0x370/0x371	131	0x370/0x371	131	0x394/0x395	131
15	R DRIVE (W)	0x372/0x373	136	0x372/0x373	136	0x396/0x397	136
16	R CUT OFF (W)	0x374/0x375	128	0x374/0x375	128	0x398/0x399	128
17	G DRIVE (W)	0x376/0x377	128	0x376/0x377	128	0x39A/0x39B	128
18	G CUT OFF (W)	0x378/0x379	128	0x378/0x379	128	0x39C/0x39D	128
19	B DRIVE (W)	0x37A/0x37B	137	0x37A/0x37B	137	0x39E/0x39F	137
20	B CUT OFF (W)	0x37C/0x37D	132	0x37C/0x37D	132	0x3A0/0x3A1	132
21	H POSI 50Hz	0x30E/0x30F	325	0x30E/0x30F	325	0x422/0x423	325
22	H POSI 60Hz	0x310/0x311	302	0x310/0x311	302	0x424/0x425	302
23	V POSI 50Hz	0x312/0x313	85	0x312/0x313	85	0x41E/0x41F	85
24	V POSI 60Hz	0x314/0x315	78	0x314/0x315	78	0x420/0x421	78
28	BRIGHT CENT	0x31C/0x31D	137	0x3A2/0x3A3	137	...	...
29	BRIGHT MAX	0x31E/0x31F	150	0x3A4/0x3A5	150	...	...
30	BRIGHT MIN	0x320/0x321	70	0x3A6/0x3A7	70	...	...
31	TINT	0x322/0x323	128/135	0x3A8/0x3A9/ 0x3BC/0x3BD	128/135	0x362/0x363/ 0x364/0x365	140
35	CONTRAST CENTER	0x32A/0x32B	103	0x3B0/0x3B1	103	...	...
36	CONTRAST MAX	0x32C/0x32D	135	0x3B2/0x3B3	135	...	...
37	CONTRAST MIN	0x32E/0x32F	60	0x3B4/0x3B5	60	...	...
38	COLOR CENT	0x330/0x331	70	0x3B6/0x3B7	70	...	...
39	COLOR MAX	0x332/0x333	120	0x3B8/0x3B9	120	...	...
40	COLOR MIN	0x334/0x335	0	0x3BA/0x3BB	0	...	...
41	H POSI TEXT	0x33C/0x33D	180	H POSI TEXT	180	...	180
42	V POS I TEXT	0x33E/0x33F	80	V POSI TEXT	80	...	80
46	RGB BRIGHT CENT	...	...	...	...	0x346/0x347	137
47	RGB BRIGHT MAX	...	...	...	...	0x348/0x349	150
48	RGB BRIGHT MIN	...	...	...	...	0x34A/0x34B	70
49	RGB CONTRAT CENT	...	...	...	...	0x34C/0x34D	123
50	RGB CONTRAT MAX	...	...	...	...	0x34E/0x34F	135
51	RGB CONTRAT MIN	...	...	...	...	0x350/0x351	60
52	RGB COLOR CENT	...	...	...	...	0x352/0x353	70
53	RGB COLOR MAX	...	...	...	...	0x354/0x355	120
54	RGB COLOR MIN	...	...	...	...	0x356/0x357	0
58	RGB V POSI 50Hz	...	...	...	...	0x41E/0x41F	84
59	RGB V POSI 60Hz	...	...	...	...	0x420/0x421	73
60	RGB H POSI 50Hz	...	...	...	...	0x422/0x423	327
61	RGB H POSI 60Hz	...	...	...	...	0x424/0x425	300

(TV/AV/RGB/CS/PC/HD-MI)

CS							
480i		480p		720p		1080i	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174	...	174	...	174
...	85	...	85	...	85	...	85
0x96C/0x96D	136	0x990/0x991	136	0x990/0x991	136	0x9B4/0x9B5	136
0x96E/0x96F	125	0x992/0x993	125	0x992/0x993	125	0x9B6/0x9B7	125
0x970/0x971	128	0x994/0x995	128	0x994/0x995	128	0x9B8/0x9B9	128
0x972/0x973	128	0x996/0x997	128	0x996/0x997	128	0x9BA/0x9BB	128
0x974/0x975	142	0x998/0x999	142	0x998/0x999	142	0x9BC/0x9BD	142
0x976/0x977	131	0x99A/0x99B	131	0x99A/0x99B	131	0x9BE/0x9BF	131
0x978/0x979	129	0x99C/0x99D	129	0x99C/0x99D	129	0x9C0/0x9C1	129
0x97A/0x97B	128	0x99E/0x99F	128	0x99E/0x99F	128	0x9C2/0x9C3	128
0x97C/0x97D	128	0x9A0/0x9A1	128	0x9A0/0x9A1	128	0x9C4/0x9C5	128
0x97E/0x97F	128	0x9A2/0x9A3	128	0x9A2/0x9A3	128	0x9C6/0x9C7	128
0x980/0x981	147	0x9A4/0x9A5	147	0x9A4/0x9A5	147	0x9C8/0x9C9	147
0x982/0x983	131	0x9A6/0x9A7	131	0x9A6/0x9A7	131	0x9CA/0x9CB	131
0x984/0x985	136	0x9A8/0x9A9	136	0x9A8/0x9A9	136	0x9CC/0x9CD	136
0x986/0x987	128	0x9AA/0x9AB	128	0x9AA/0x9AB	128	0x9CE/0x9CF	128
0x988/0x989	128	0x9AC/0x9AD	128	0x9AC/0x9AD	128	0x9D0/0x9D1	128
0x98A/0x98B	128	0x9AE/0x9AF	128	0x9AE/0x9AF	128	0x9D2/0x9D3	128
0x98C/0x98D	137	0x9B0/0x9B1	137	0x9B0/0x9B1	137	0x9D4/0x9D5	137
0x98E/0x98F	132	0x9B2/0x9B3	132	0x9B2/0x9B3	132	0x9D6/0x9D7	132
0xAB8/0xAB9	330	0xAC0/0xAC1	160	0xAC8/0xAC9	352	0xAD0/0xAD1	311
0xABA/0xABB	304	0xAC2/0xAC3	144	0xACA/0xACB	340	0xAD2/0xAD3	295
0xABC/0xABD	85	0xAC4/0xAC5	86	0xACC/0xACD	50	0xAD4/0xAD5	46
0xABE/0xABF	73	0xAC6/0xAC7	80	0xACE/0xACF	46	0xAD6/0xAD7	79
0xA48/0xA49	137	0xA64/0xA65	137	0xA80/0xA81	137	0xA9C/0xA9D	137
0xA4A/0xA4B	150	0xA66/0xA67	150	0xA82/0xA83	150	0xA9E/0xA9F	150
0xA4C/0xA4D	70	0xA68/0xA69	70	0xA84/0xA85	70	0xAA0/0xAA1	70
0xA4E/0xA4F/0xA62/0xA63	140	0xA6A/0xA6B/0xA7E/0xA7F	140	0xA86/0xA87/0xA9A/0xA9B	140	0xAA2/0xAA3/0xAB6/0xAB7	140
0xA56/0xA57	103	0xA72/0xA73	103	0xA8E/0xA8F	103	0xAAA/0xAAB	103
0xA58/0xA59	135	0xA74/0xA75	135	0xA90/0xA91	135	0xAAC/0xAAD	135
0xA5A/0xA5B	60	0xA76/0xA77	60	0xA92/0xA93	60	0xAAE/0xAAF	60
0xA5C/0xA5D	60	0xA78/0xA79	60	0xA94/0xA95	60	0xAB0/0xAB1	60
0xA5E/0xA5F	120	0xA7A/0xA7B	120	0xA96/0xA97	120	0xAB2/0xAB3	120
0xA60/0xA61	0	0xA7C/0xA7D	0	0xA98/0xA99	0	0xAB4/0xAB5	0
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

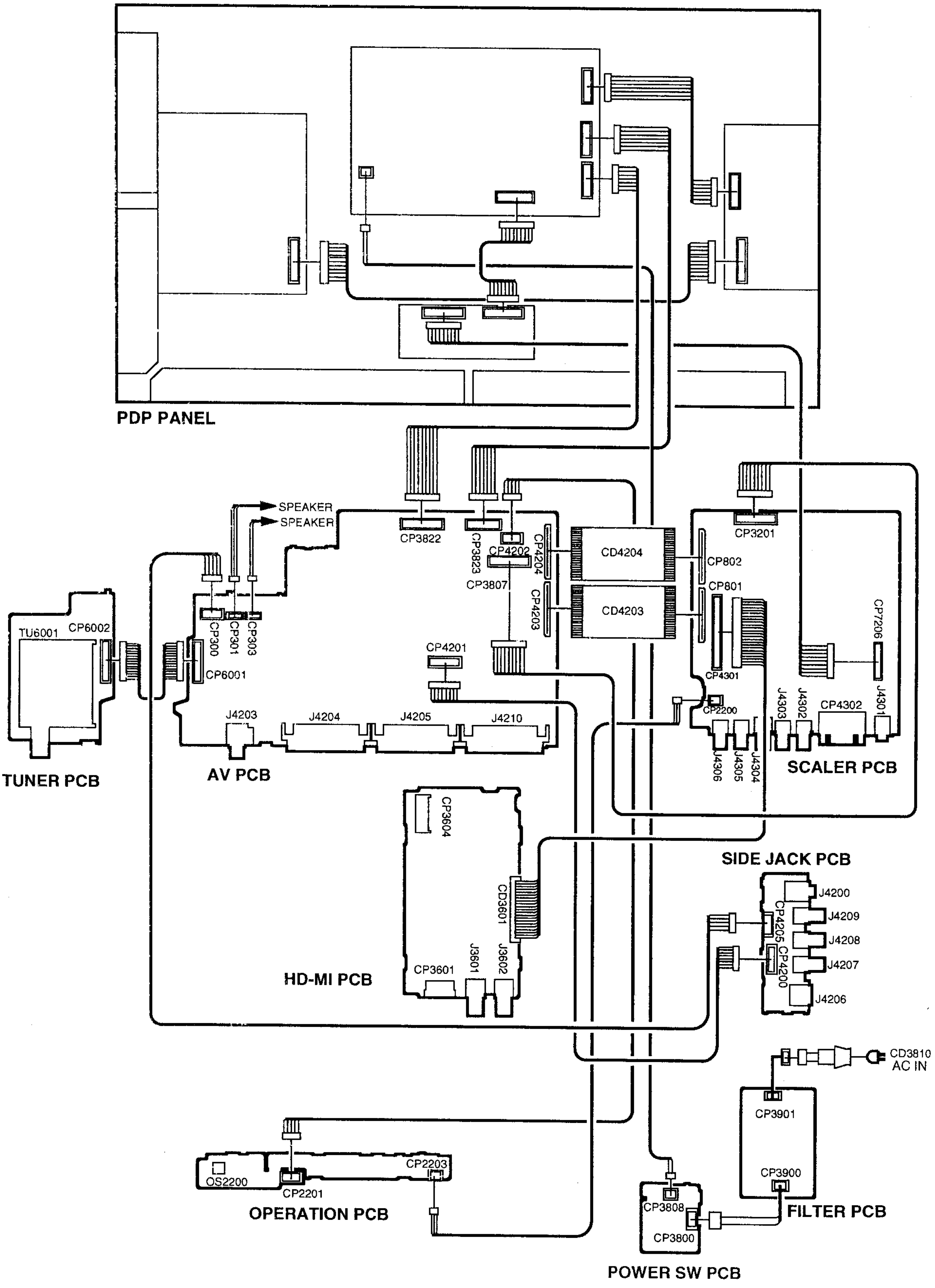
HD-MI							
480i		480p		720p		1080i	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
…	174	…	174	…	174	…	174
…	85	…	85	…	85	…	85
0x494/0x495	136	0x4B8/0x4B9	136	0x4B8/0x4B9	136	0x4DC/0x4DD	136
0x496/0x497	125	0x4BA/0x4BB	125	0x4BA/0x4BB	125	0x4DE/0x4DF	125
0x498/0x499	128	0x4BC/0x4BD	128	0x4BC/0x4BD	128	0x4E0/0x4E1	128
0x49A/0x49B	128	0x4BE/0x4BF	128	0x4BE/0x4BF	128	0x4E2/0x4E3	128
0x49C/0x49D	142	0x4C0/0x4C1	142	0x4C0/0x4C1	142	0x4E4/0x4E5	142
0x49E/0x49F	131	0x4C2/0x4C3	131	0x4C2/0x4C3	131	0x4E6/0x4E7	131
0x4A0/0x4A1	129	0x4C4/0x4C5	129	0x4C4/0x4C5	129	0x4E8/0x4E9	129
0x4A2/0x4A3	128	0x4C6/0x4C7	128	0x4C6/0x4C7	128	0x4EA/0x4EB	128
0x4A4/0x4A5	128	0x4C8/0x4C9	128	0x4C8/0x4C9	128	0x4EC/0x4ED	128
0x4A6/0x4A7	128	0x4CA/0x4CB	128	0x4CA/0x4CB	128	0x4EE/0x4EF	128
0x4A8/0x4A9	147	0x4CC/0x4CD	147	0x4CC/0x4CD	147	0x4F0/0x4F1	147
0x4AA/0x4AB	131	0x4CE/0x4CF	131	0x4CE/0x4CF	131	0x4F2/0x4F3	131
0x4AC/0x4AD	136	0x4D0/0x4D1	136	0x4D0/0x4D1	136	0x4F4/0x4F5	136
0x4AE/0x4AF	128	0x4D2/0x4D3	128	0x4D2/0x4D3	128	0x4F6/0x4F7	128
0x4B0/0x4B1	128	0x4D4/0x4D5	128	0x4D4/0x4D5	128	0x4F8/0x4F9	128
0x4B2/0x4B3	128	0x4D6/0x4D7	128	0x4D6/0x4D7	128	0x4FA/0x4FB	128
0x4B4/0x4B5	137	0x4D8/0x4D9	137	0x4D8/0x4D9	137	0x4FC/0x4FD	137
0x4B6/0x4B7	132	0x4DA/0x4DB	132	0x4DA/0x4DB	132	0x4FE/0x4FF	132
0x5C4/0x5C5	320	0x5CC/0x5CD	158	0x5D4/0x5D5	308	0x5DC/0x5DD	261
0x5C6/0x5C7	286	0x5CE/0x5CF	144	0x5D6/0x5D7	296	0x5DE/0x5DF	249
0x5C8/0x5C9	76	0x5D0/0x5D1	81	0x5D8/0x5D9	48	0x5E0/0x5E1	42
0x5CA/0x5CB	79	0x5D2/0x5D3	74	0x5DA/0xSDB	45	0x5E2/0x5E3	38
0x570/0x571	137	0x58C/0x58D	137	0x5A8/0x5A9	137	0x3BE/0x3BF	137
0x572/0x573	150	0x58E/0x58F	150	0x5AA/0x5AB	150	0x3C0/0x3C1	150
0x574/0x575	70	0x590/0x591	70	0x5AC/0x5AD	70	0x3C2/0x3C3	70
0x576/0x577/ 0x58A/0x58B	140	0x592/0x593/ 0x5A6/0x5A7	140	0x5AE/0x5AF/ 0x5C2/0x5C3	140	0x3C4/0x3C5/ 0x3D8/0x3D9	140
0x57E/0x57F	103	0x59A/0x59B	103	0x5B6/0x5B7	103	0x3CC/0x3CD	103
0x580/0x581	135	0x59C/0x59D	135	0x5B8/0x5B9	135	0x3CE/0x3CF	135
0x582/0x583	60	0x59E/0x59F	60	0x5BA/0x5BB	60	0x3D0/0x3D1	60
0x584/0x585	60	0x5A0/0x5A1	60	0x5BC/0x5BD	60	0x3D2/0x3D3	60
0x586/0x587	120	0x5A2/0x5A3	120	0x5BE/0x5BF	120	0x3D4/0x3D5	120
0x588/0x589	0	0x5A4/0x5A5	0	0x5C0/0x5C1	0	0x3D6/0x3D7	0
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…

PC							
VGA (640 X 480)		SVGA (800 X 600)		WVGA (848 X 480)		XGA(1024 X 768)	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
…	174	…	174	…	174	…	174
…	85	…	85	…	85	…	85
0x3F6/0x3F7	128	…	128	…	128	…	128
…	…	…	…	…	…	…	…
0x3FA/0x3FB	128	…	128	…	128	…	128
…	…	…	…	…	…	…	…
0x3FE/0x3FF	128	…	128	…	128	…	128
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
0x3DA/0x3DB	49	0x3DE/0x3DF	215	0x3E6/0x3E7	111	0x3E0/0x3E1	158
…	…	…	…	…	…	…	…
0x3E8/0x3E9	39	0x3EC/0x3ED	24	0x3F4/0x3F5	25	0x3EE/0x3EF	22
0x402/0x403	115	…	115	…	115	…	115
0x404/0x405	150	…	150	…	150	…	150
0x406/0x407	70	…	70	…	70	…	70
…	…	…	…	…	…	…	…
0x410/0x411	128	…	128	…	128	…	128
0x412/0x413	180	…	180	…	180	…	180
0x414/0x415	60	…	60	…	60	…	60
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…

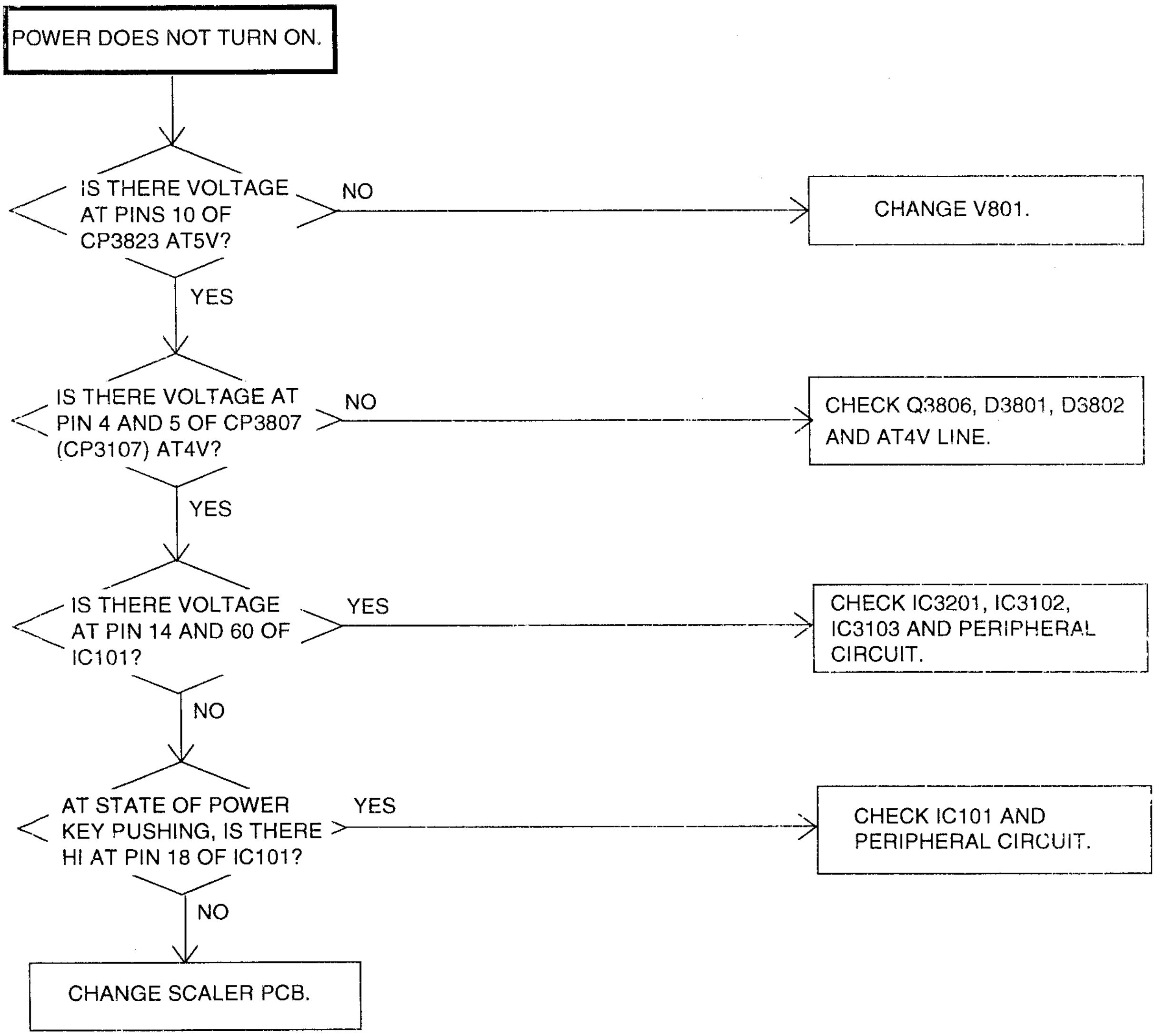
PC			
WVGA 1280 X 720)		WXGA(1280 X 768)	
ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174
...	85	...	85
...	128	...	128
...	...	...	...
...	128	...	128
...	...	...	...
...	128	...	128
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
0x3E2/0x3E3	186	0x3E4/0x3E5	186
...	...	...	...
0x3F0/0x3F1	18	0x3F2/0x3F3	18
...	115	...	115
...	150	...	150
...	70	...	70
...	...	...	...
...	128	...	128
...	180	...	180
...	60	...	60
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...

ELECTRICAL ADJUSTMENTS

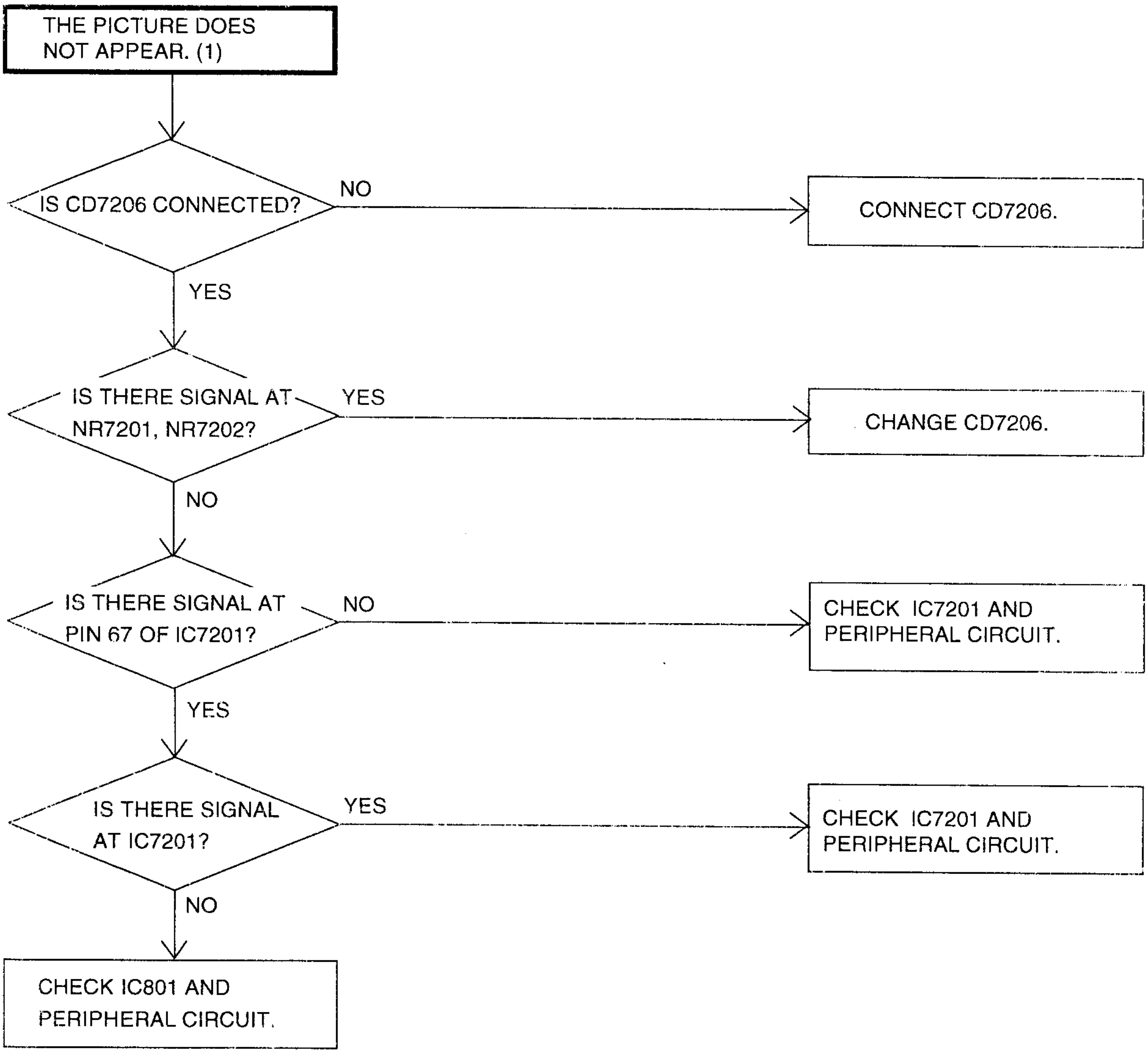
3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)


PDP PANEL
SPEAKER
SPEAKER
CP3822
CP3823
CP4202
CP4204
CP3807
CP4203
CD4204
CD4203
CP802
CP801
CP3201
CP7206
TU6001
CP6002
CP6001
CP300
CP301
CP303
CP4201
J4203
J4204
J4205
J4210
CP4301
CP2200
J4303
J4302
CP4302
J4301
J4306
J4305
J4304
TUNER PCB
AV PCB
SCALER PCB
CP3604
CD3601
J3601
J3602
CP3601
HD-MI PCB
SIDE JACK PCB
J4200
CP4205
J4209
J4208
CP4200
J4207
J4206
CD3810
AC IN
CP3901
CP3900
FILTER PCB
OS2200
CP2203
CP2201
OPERATION PCB
CP3808
CP3800
POWER SW PCB

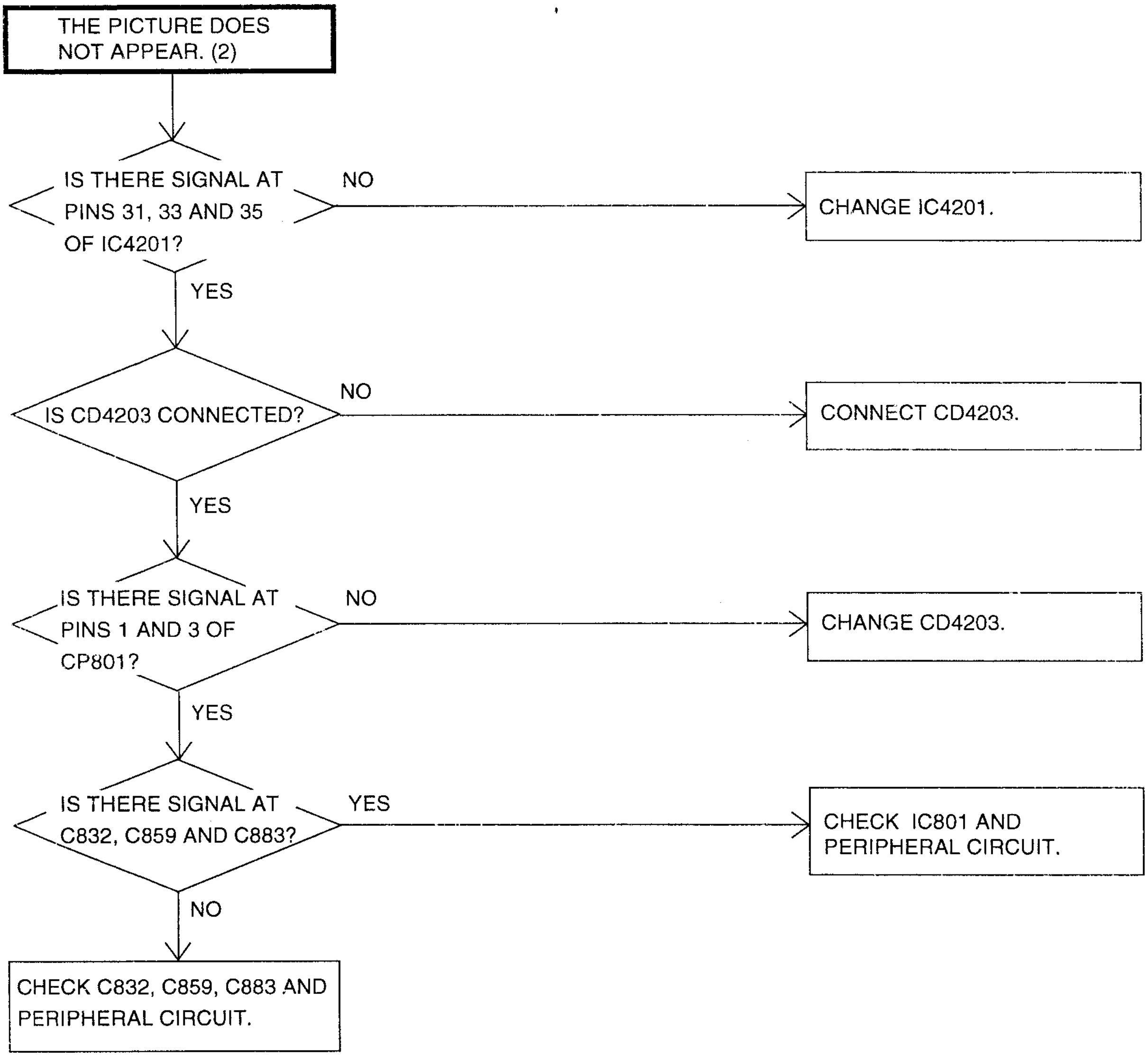
TROUBLESHOOTING GUIDE


POWER DOES NOT TURN ON.
IS THERE VOLTAGE AT PINS 10 OF CP3823 AT5V?
NO
CHANGE V801.
YES
IS THERE VOLTAGE AT PIN 4 AND 5 OF CP3807 (CP3107) AT4V?
NO
CHECK Q3806, D3801, D3802 AND AT4V LINE.
YES
IS THERE VOLTAGE AT PIN 14 AND 60 OF IC101?
YES
CHECK IC3201, IC3102, IC3103 AND PERIPHERAL CIRCUIT.
NO
AT STATE OF POWER KEY PUSHING, IS THERE HI AT PIN 18 OF IC101?
YES
CHECK IC101 AND PERIPHERAL CIRCUIT.
NO
CHANGE SCALER PCB.

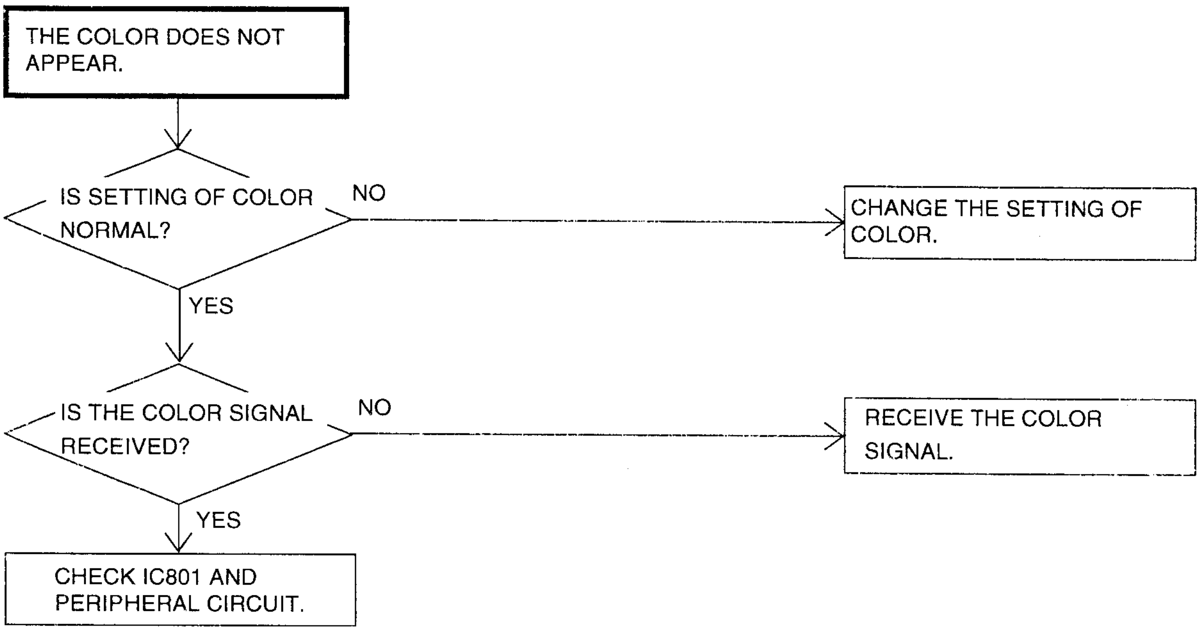
TROUBLESHOOTING GUIDE

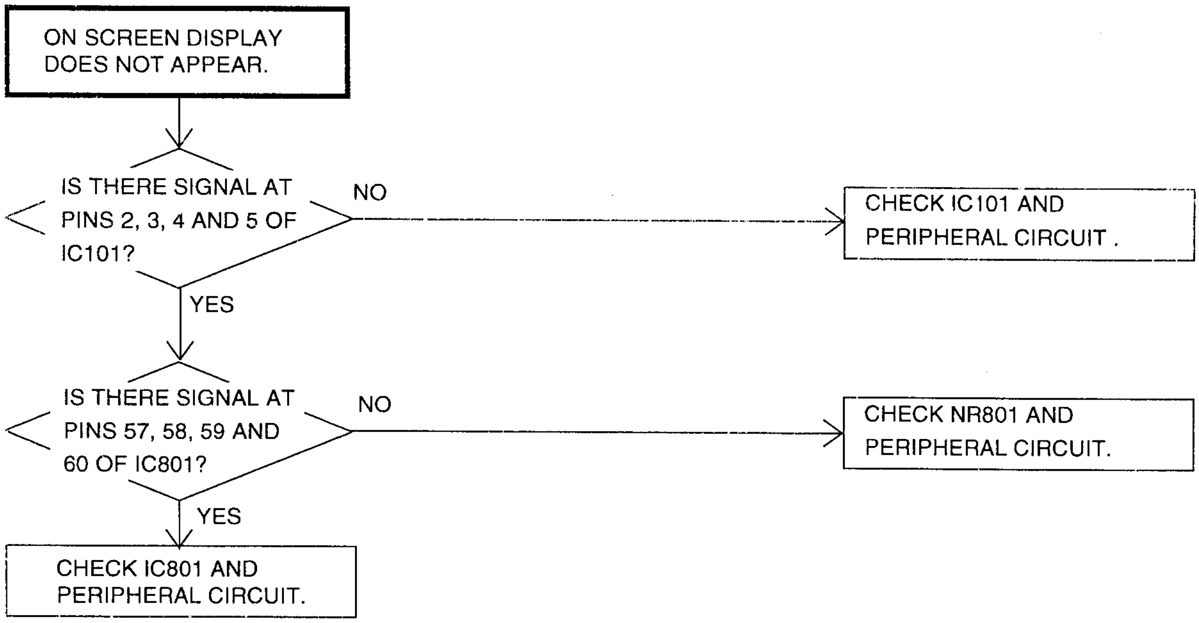

THE PICTURE DOES NOT APPEAR. (1)
IS CD7206 CONNECTED?
NO
CONNECT CD7206.
YES
IS THERE SIGNAL AT NR7201, NR7202?
YES
CHANGE CD7206.
NO
IS THERE SIGNAL AT PIN 67 OF IC7201?
NO
CHECK IC7201 AND PERIPHERAL CIRCUIT.
YES
IS THERE SIGNAL AT IC7201?
YES
CHECK IC7201 AND PERIPHERAL CIRCUIT.
NO
CHECK IC801 AND PERIPHERAL CIRCUIT.

TROUBLESHOOTING GUIDE

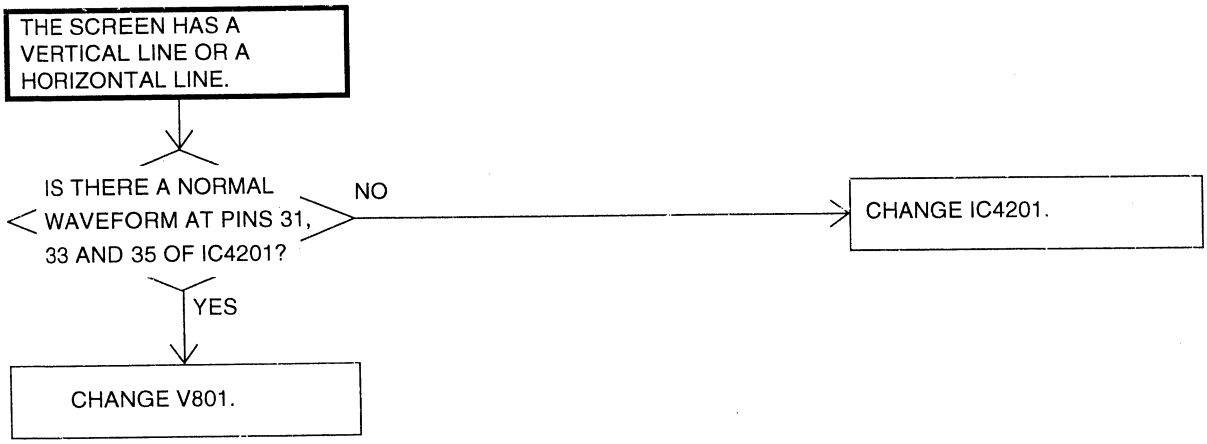

THE PICTURE DOES NOT APPEAR. (2)
IS THERE SIGNAL AT PINS 31, 33 AND 35 OF IC4201?
NO
CHANGE IC4201.
YES
IS CD4203 CONNECTED?
NO
CONNECT CD4203.
YES
IS THERE SIGNAL AT PINS 1 AND 3 OF CP801?
NO
CHANGE CD4203.
YES
IS THERE SIGNAL AT C832, C859 AND C883?
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.
NO
CHECK C832, C859, C883 AND PERIPHERAL CIRCUIT.

TROUBLESHOOTING GUIDE

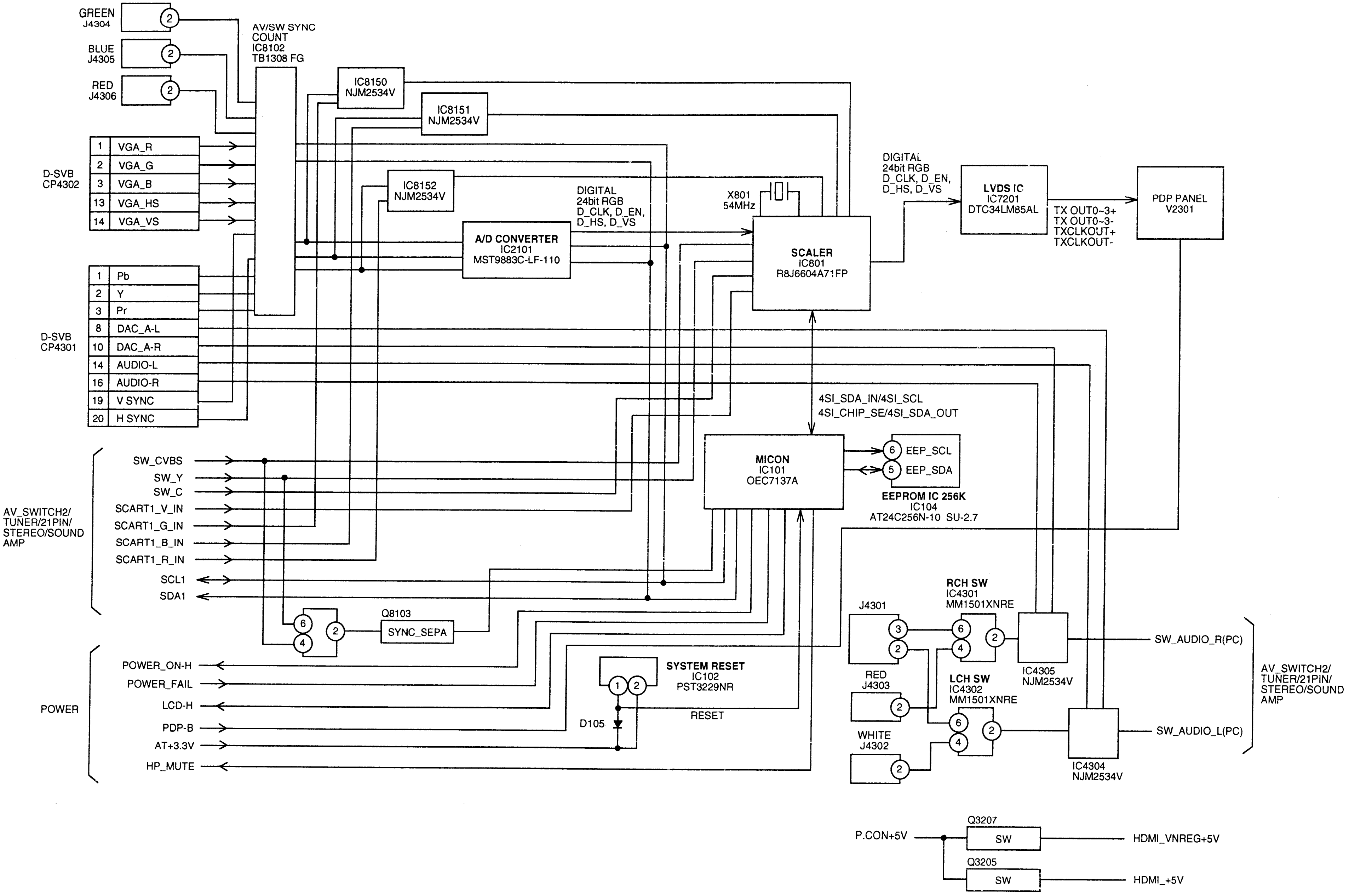

THE COLOR DOES NOT APPEAR.
IS SETTING OF COLOR NORMAL?
NO
CHANGE THE SETTING OF COLOR.
YES
IS THE COLOR SIGNAL RECEIVED?
NO
RECEIVE THE COLOR SIGNAL.
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.


ON SCREEN DISPLAY DOES NOT APPEAR.
IS THERE SIGNAL AT PINS 2, 3, 4 AND 5 OF IC101?
NO
CHECK IC101 AND PERIPHERAL CIRCUIT .
YES
IS THERE SIGNAL AT PINS 57, 58, 59 AND 60 OF IC801?
NO
CHECK NR801 AND PERIPHERAL CIRCUIT.
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.

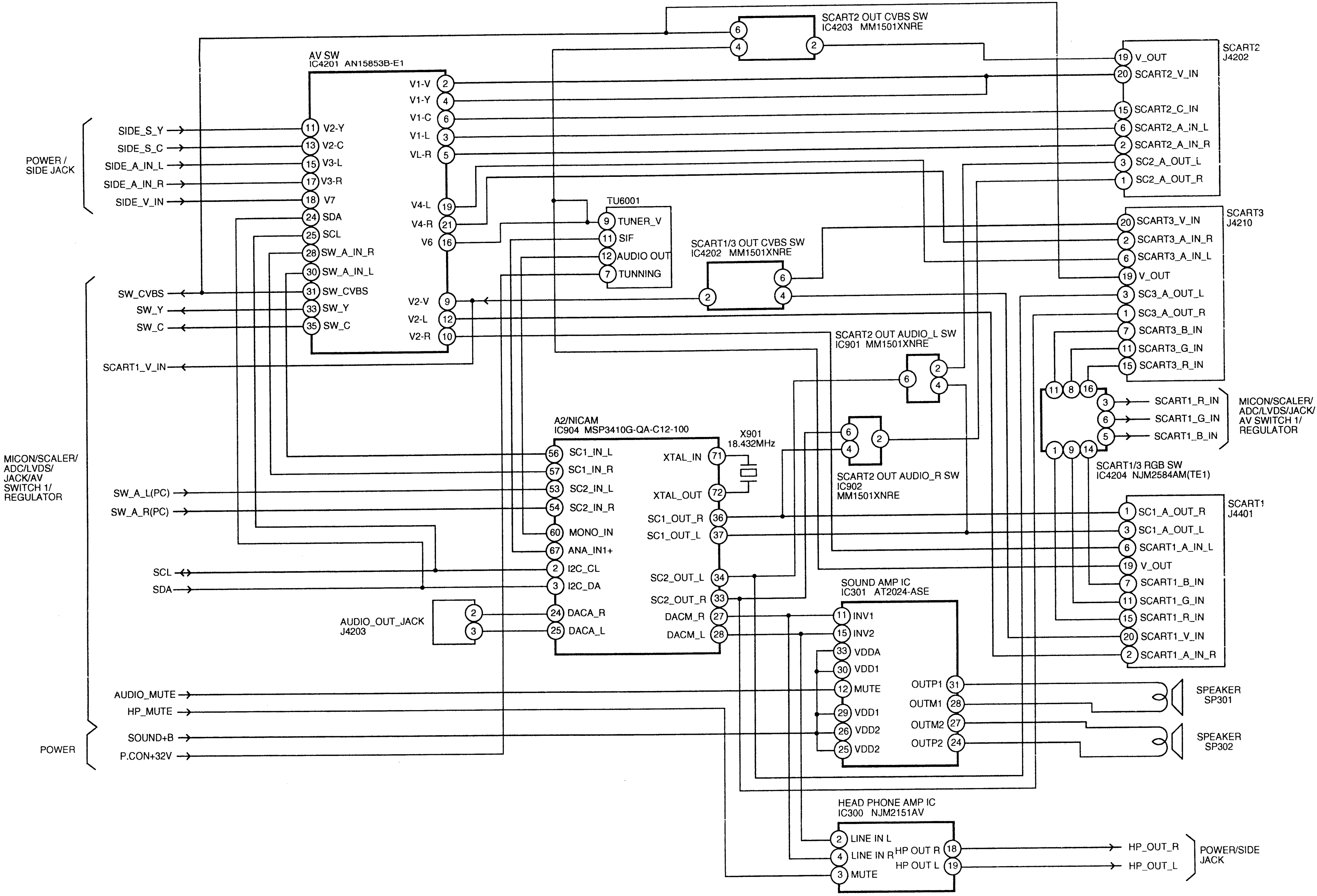
TROUBLESHOOTING GUIDE


THE SCREEN HAS A VERTICAL LINE OR A HORIZONTAL LINE.
IS THERE A NORMAL WAVEFORM AT PINS 31, 33 AND 35 OF IC4201?
NO
CHANGE IC4201.
YES
CHANGE V801.

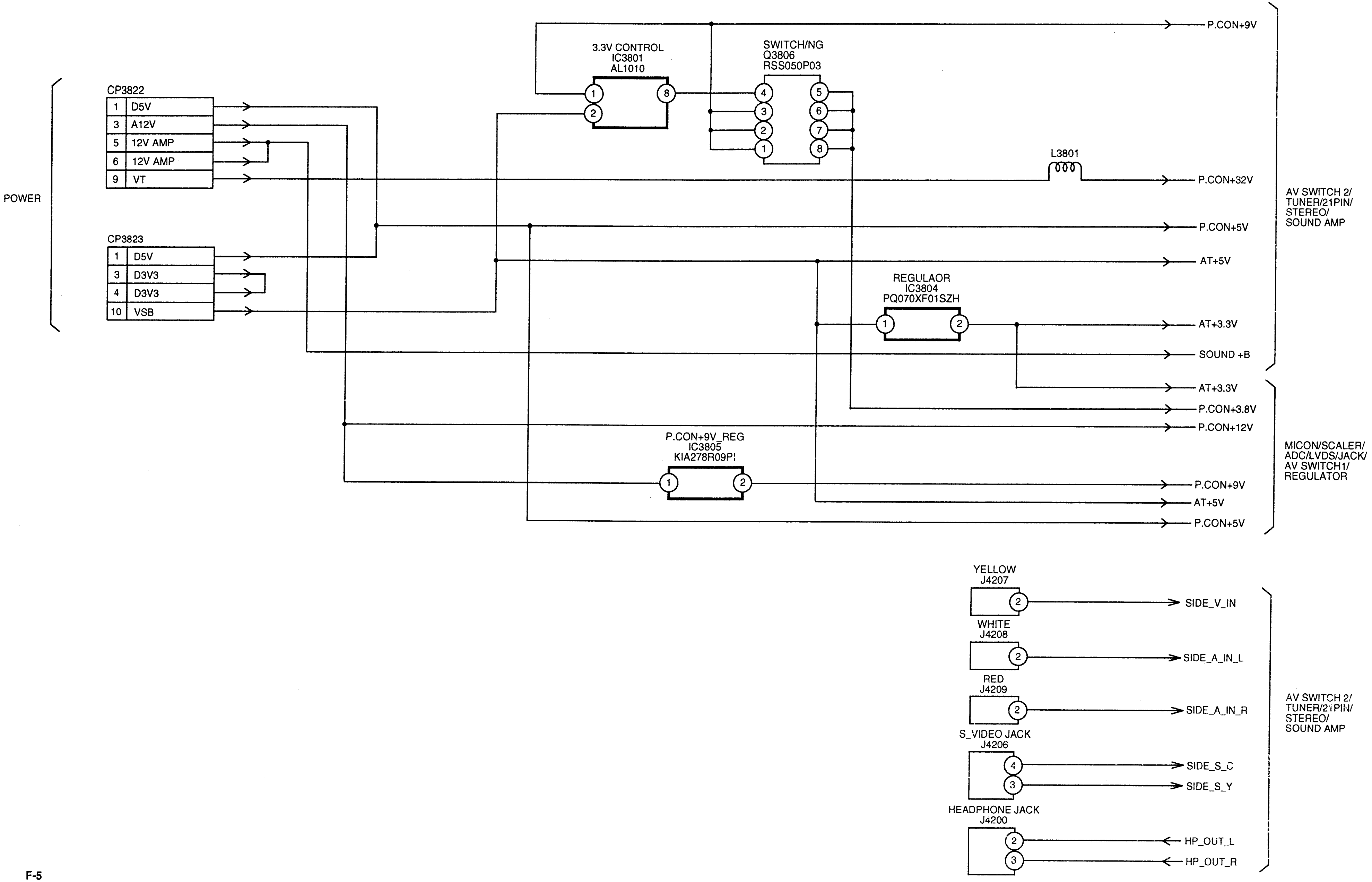
MICON/SCALER/ADC/LVDS/JACK/AV_SW1/REGULATOR BLOCK DIAGRAM


GREEN
J4304
BLUE
J4305
RED
J4306
2
AV/SW SYNC
COUNT
IC8102
TB1308 FG
IC8150
NJM2534V
IC8151
NJM2534V
IC8152
NJM2534V
D-SVB
CP4302
1 VGA_R
2 VGA_G
3 VGA_B
13 VGA_HS
14 VGA_VS
A/D CONVERTER
IC2101
MST9883C-LF-110
DIGITAL
24bit RGB
D_CLK, D_EN,
D_HS, D_VS
X801
54MHz
SCALER
IC801
R8J6604A71FP
DIGITAL
24bit RGB
D_CLK, D_EN,
D_HS, D_VS
LVDS IC
IC7201
DTC34LM85AL
TX OUT0~3+
TX OUT0~3-
TXCLKOUT+
TXCLKOUT-
PDP PANEL
V2301
D-SVB
CP4301
1 Pb
2 Y
3 Pr
8 DAC_A-L
10 DAC_A-R
14 AUDIO-L
16 AUDIO-R
19 V SYNC
20 H SYNC
4SI_SDA_IN/4SI_SCL
4SI_CHIP_SE/4SI_SDA_OUT
MICON
IC101
OEC7137A
6 EEP_SCL
5 EEP_SDA
EEPROM IC 256K
IC104
AT24C256N-10 SU-2.7
AV_SWITCH2/
TUNER/21PIN/
STEREO/SOUND
AMP
SW_CVBS
SW_Y
SW_C
SCART1_V_IN
SCART1_G_IN
SCART1_B_IN
SCART1_R_IN
SCL1
SDA1
6
4
2
Q8103
SYNC_SEPA
POWER
POWER_ON-H
POWER_FAIL
LCD-H
PDP-B
AT+3.3V
HP_MUTE
SYSTEM RESET
IC102
PST3229NR
1
2
D105
RESET
J4301
3
2
RCH SW
IC4301
MM1501XNRE
6
4
2
IC4305
NJM2534V
SW_AUDIO_R(PC)
RED
J4303
2
LCH SW
IC4302
MM1501XNRE
6
4
2
WHITE
J4302
2
IC4304
NJM2534V
SW_AUDIO_L(PC)
AV_SWITCH2/
TUNER/21PIN/
STEREO/SOUND
AMP
P.CON+5V
Q3207
SW
HDMI_VNREG+5V
Q3205
SW
HDMI_+5V

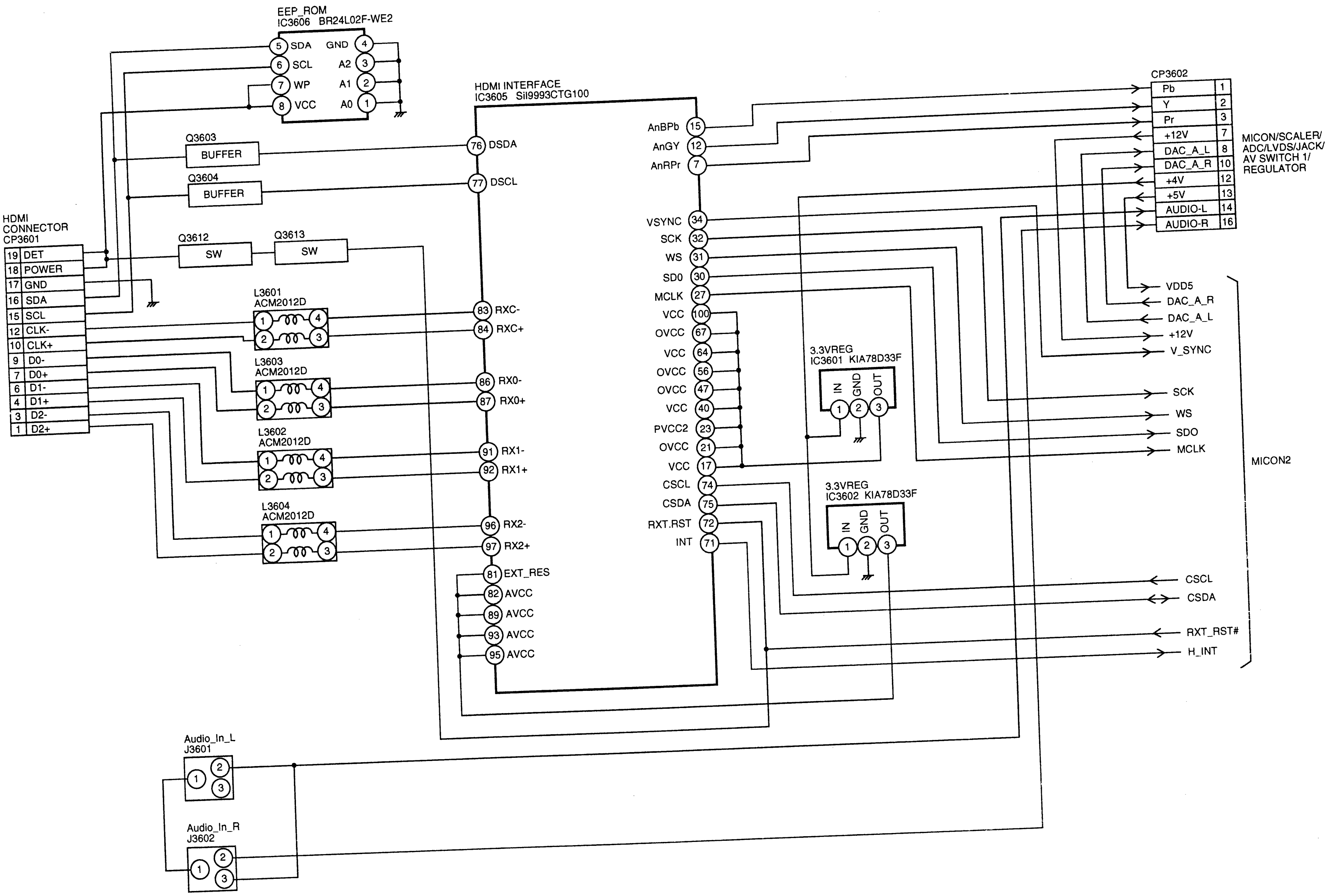
AV SWITCH 2/TUNER/21PIN/STEREO/SOUND AMP BLOCK DIAGRAM


SCART2 OUT CVBS SW
IC4203 MM1501XNRE
AV SW
IC4201 AN15853B-E1
V1-V
V1-Y
V1-C
V1-L
VL-R
V2-Y
V2-C
V3-L
V3-R
V7
SDA
SCL
SW_A_IN_R
SW_A_IN_L
SW_CVBS
SW_Y
SW_C
V4-L
V4-R
V6
V2-V
V2-L
V2-R
SIDE_S_Y
SIDE_S_C
SIDE_A_IN_L
SIDE_A_IN_R
SIDE_V_IN
POWER /
SIDE JACK
SW_CVBS
SW_Y
SW_C
SCART1_V_IN
MICON/SCALER/
ADC/LVDS/
JACK/AV
SWITCH 1/
REGULATOR
SW_A_L(PC)
SW_A_R(PC)
SCL
SDA
AUDIO_MUTE
HP_MUTE
SOUND+B
P.CON+32V
POWER
TU6001
TUNER_V
SIF
AUDIO OUT
TUNNING
SCART1/3 OUT CVBS SW
IC4202 MM1501XNRE
SCART2
J4202
V_OUT
SCART2_V_IN
SCART2_C_IN
SCART2_A_IN_L
SCART2_A_IN_R
SC2_A_OUT_L
SC2_A_OUT_R
SCART3
J4210
SCART3_V_IN
SCART3_A_IN_R
SCART3_A_IN_L
V_OUT
SC3_A_OUT_L
SC3_A_OUT_R
SCART3_B_IN
SCART3_G_IN
SCART3_R_IN
SCART2 OUT AUDIO_L SW
IC901 MM1501XNRE
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
MICON/SCALER/
ADC/LVDS/JACK/
AV SWITCH 1/
REGULATOR
SCART1/3 RGB SW
IC4204 NJM2584AM(TE1)
A2/NICAM
IC904 MSP3410G-QA-C12-100
SC1_IN_L
SC1_IN_R
SC2_IN_L
SC2_IN_R
MONO_IN
ANA_IN1+
I2C_CL
I2C_DA
DACA_R
DACA_L
XTAL_IN
XTAL_OUT
SC1_OUT_R
SC1_OUT_L
SC2_OUT_L
SC2_OUT_R
DACM_R
DACM_L
X901
18.432MHz
SCART2 OUT AUDIO_R SW
IC902
MM1501XNRE
AUDIO_OUT_JACK
J4203
SCART1
J4401
SC1_A_OUT_R
SC1_A_OUT_L
SCART1_A_IN_L
V_OUT
SCART1_B_IN
SCART1_G_IN
SCART1_R_IN
SCART1_V_IN
SCART1_A_IN_R
SOUND AMP IC
IC301 AT2024-ASE
INV1
INV2
VDDA
VDD1
MUTE
VDD1
VDD2
VDD2
OUTP1
OUTM1
OUTM2
OUTP2
SPEAKER
SP301
SPEAKER
SP302
HEAD PHONE AMP IC
IC300 NJM2151AV
LINE IN L
LINE IN R
MUTE
HP OUT R
HP OUT L
HP_OUT_R
HP_OUT_L
POWER/SIDE
JACK

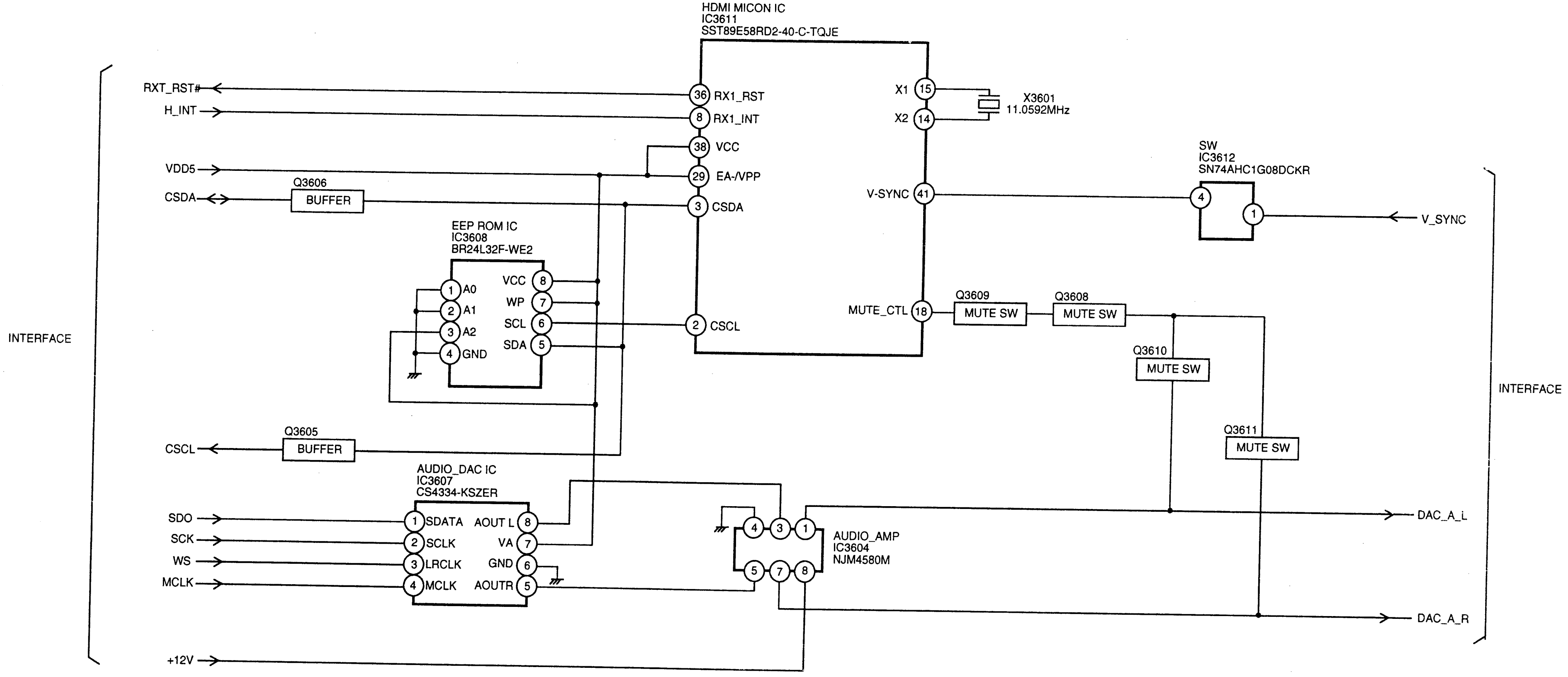
POWER/SIDE JACK BLOCK DIAGRAM


POWER
CP3822
1 D5V
3 A12V
5 12V AMP
6 12V AMP
9 VT
CP3823
1 D5V
3 D3V3
4 D3V3
10 VSB
3.3V CONTROL
IC3801
AL1010
SWITCH/NG
Q3806
RSS050P03
L3801
REGULAOR
IC3804
PQ070XF01SZH
P.CON+9V_REG
IC3805
KIA278R09PI
P.CON+9V
P.CON+32V
P.CON+5V
AT+5V
AT+3.3V
SOUND +B
AV SWITCH 2/
TUNER/21PIN/
STEREO/
SOUND AMP
AT+3.3V
P.CON+3.8V
P.CON+12V
P.CON+9V
AT+5V
P.CON+5V
MICON/SCALER/
ADC/LVDS/JACK/
AV SWITCH1/
REGULATOR
YELLOW
J4207
SIDE_V_IN
WHITE
J4208
SIDE_A_IN_L
RED
J4209
SIDE_A_IN_R
S_VIDEO JACK
J4206
SIDE_S_C
SIDE_S_Y
HEADPHONE JACK
J4200
HP_OUT_L
HP_OUT_R
AV SWITCH 2/
TUNER/21PIN/
STEREO/
SOUND AMP

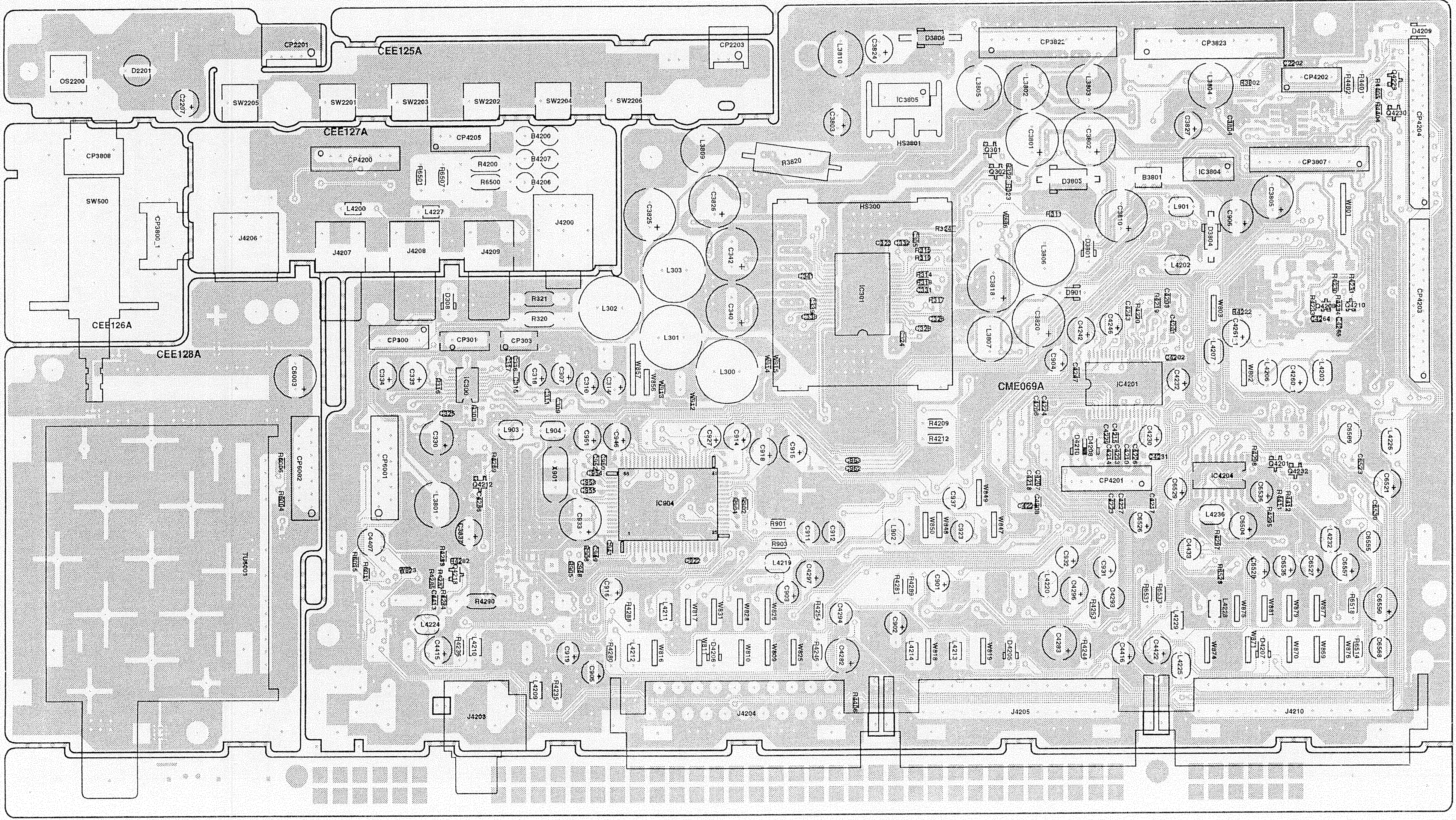
INTERFACE BLOCK DIAGRAM


EEP_ROM
IC3606 BR24L02F-WE2
5 SDA
6 SCL
7 WP
8 VCC
GND 4
A2 3
A1 2
A0 1
HDMI INTERFACE
IC3605 Sil9993CTG100
76 DSDA
77 DSCL
83 RXC-
84 RXC+
86 RX0-
87 RX0+
91 RX1-
92 RX1+
96 RX2-
97 RX2+
81 EXT_RES
82 AVCC
89 AVCC
93 AVCC
95 AVCC
AnBPb 15
AnGY 12
AnRPr 7
VSYNC 34
SCK 32
WS 31
SD0 30
MCLK 27
VCC 100
OVCC 67
VCC 64
OVCC 56
OVCC 47
VCC 40
PVCC2 23
OVCC 21
VCC 17
CSCL 74
CSDA 75
RXT.RST 72
INT 71
Q3603
BUFFER
Q3604
BUFFER
Q3612
SW
Q3613
SW
HDMI
CONNECTOR
CP3601
19 DET
18 POWER
17 GND
16 SDA
15 SCL
12 CLK-
10 CLK+
9 D0-
7 D0+
6 D1-
4 D1+
3 D2-
1 D2+
L3601
ACM2012D
L3603
ACM2012D
L3602
ACM2012D
L3604
ACM2012D
1
2
3
4
3.3VREG
IC3601 KIA78D33F
3.3VREG
IC3602 KIA78D33F
IN
GND
OUT
CP3602
Pb 1
Y 2
Pr 3
+12V 7
DAC_A_L 8
DAC_A_R 10
+4V 12
+5V 13
AUDIO-L 14
AUDIO-R 16
MICON/SCALER/
ADC/LVDS/JACK/
AV SWITCH 1/
REGULATOR
VDD5
DAC_A_R
DAC_A_L
+12V
V_SYNC
SCK
WS
SDO
MCLK
CSCL
CSDA
RXT_RST#
H_INT
MICON2
Audio_In_L
J3601
Audio_In_R
J3602

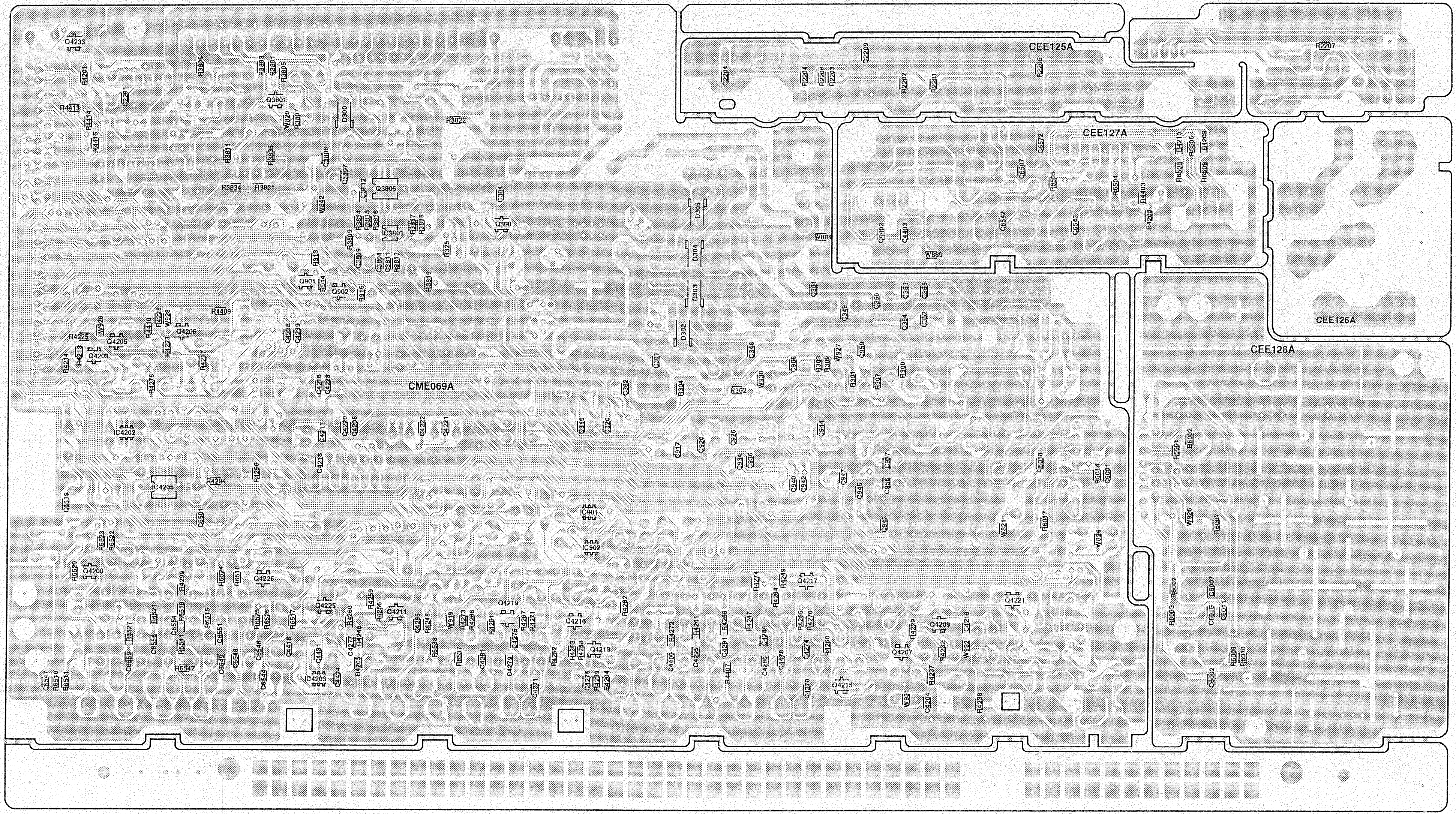
MICON2 BLOCK DIAGRAM


HDMI MICON IC
IC3611
SST89E58RD2-40-C-TQJE
RXT_RST#
H_INT
VDD5
CSDA
CSCL
SDO
SCK
WS
MCLK
+12V
INTERFACE
36 RX1_RST
8 RX1_INT
38 VCC
29 EA-/VPP
3 CSDA
2 CSCL
X1 15
X2 14
X3601
11.0592MHz
V-SYNC 41
MUTE_CTL 18
Q3606
BUFFER
Q3605
BUFFER
EEP ROM IC
IC3608
BR24L32F-WE2
1 A0
2 A1
3 A2
4 GND
VCC 8
WP 7
SCL 6
SDA 5
SW
IC3612
SN74AHC1G08DCKR
4
1
V_SYNC
Q3609
MUTE SW
Q3608
MUTE SW
Q3610
MUTE SW
Q3611
MUTE SW
AUDIO_DAC IC
IC3607
CS4334-KSZER
1 SDATA
2 SCLK
3 LRCLK
4 MCLK
AOUT L 8
VA 7
GND 6
AOUTR 5
AUDIO_AMP
IC3604
NJM4580M
4
3
1
5
7
8
DAC_A_L
DAC_A_R
INTERFACE

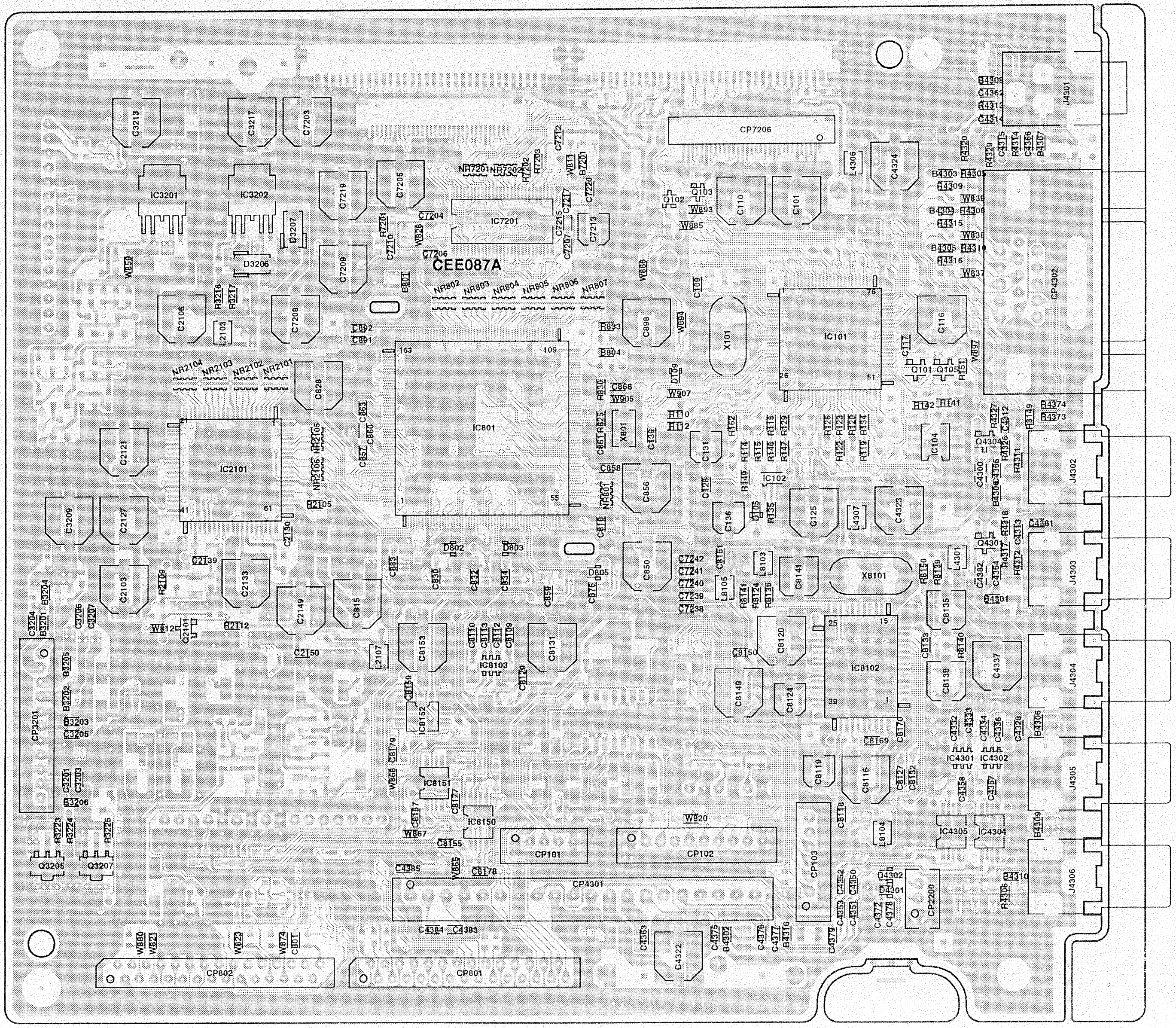
PRINTED CIRCUIT BOARDS
AV/OPERATION/TUNER/POWER SW/SIDE JACK (TOP SIDE)


CP2201
CEE125A
CP2203
OS2200
D2201
C2207
SW2205
SW2201
SW2203
SW2202
SW2204
SW2206
CEE127A
CP4205
B4200
B4207
B4206
CP4200
R4200
R6500
R6501
R6507
CP3808
SW500
CP3800_1
L4200
L4227
J4206
J4207
J4208
J4209
J4200
CEE126A
CEE128A
C6003
CP300
CP301
CP303
D308
R321
R320
L302
L303
L301
L300
C342
C340
C3825
C3826
L3809
R3820
HS300
IC301
L3810
C3824
D3806
CP3822
CP3823
IC3805
HS3801
C3803
L3805
L3802
L3803
L3804
C3801
C3802
C3827
CP4202
D4209
CP4204
CP3907
IC3804
B3801
D3805
Q301
Q302
C3805
C3810
L901
D3804
L3806
C3818
C3820
L3807
D901
L4202
W801
W802
W803
CP4203
L4207
L4206
L4203
C4260
IC4201
CME069A
C904
C4242
R4209
R4212
CP4201
IC4204
L4226
C6521
C6555
L4236
C6504
L4232
C6550
C6568
X901
L903
L904
C330
C334
C333
C316
C307
C310
C314
C951
C946
C927
C914
C918
C915
IC904
C933
CP6001
CP5002
TU6001
L3801
C4407
C3837
R4290
L4224
C4415
R901
R903
L4219
C911
C912
C937
W850
L902
C923
C932
C931
C901
C902
L4220
L4228
L4214
L4212
L4211
C919
C905
J4203
J4204
J4205
J4210

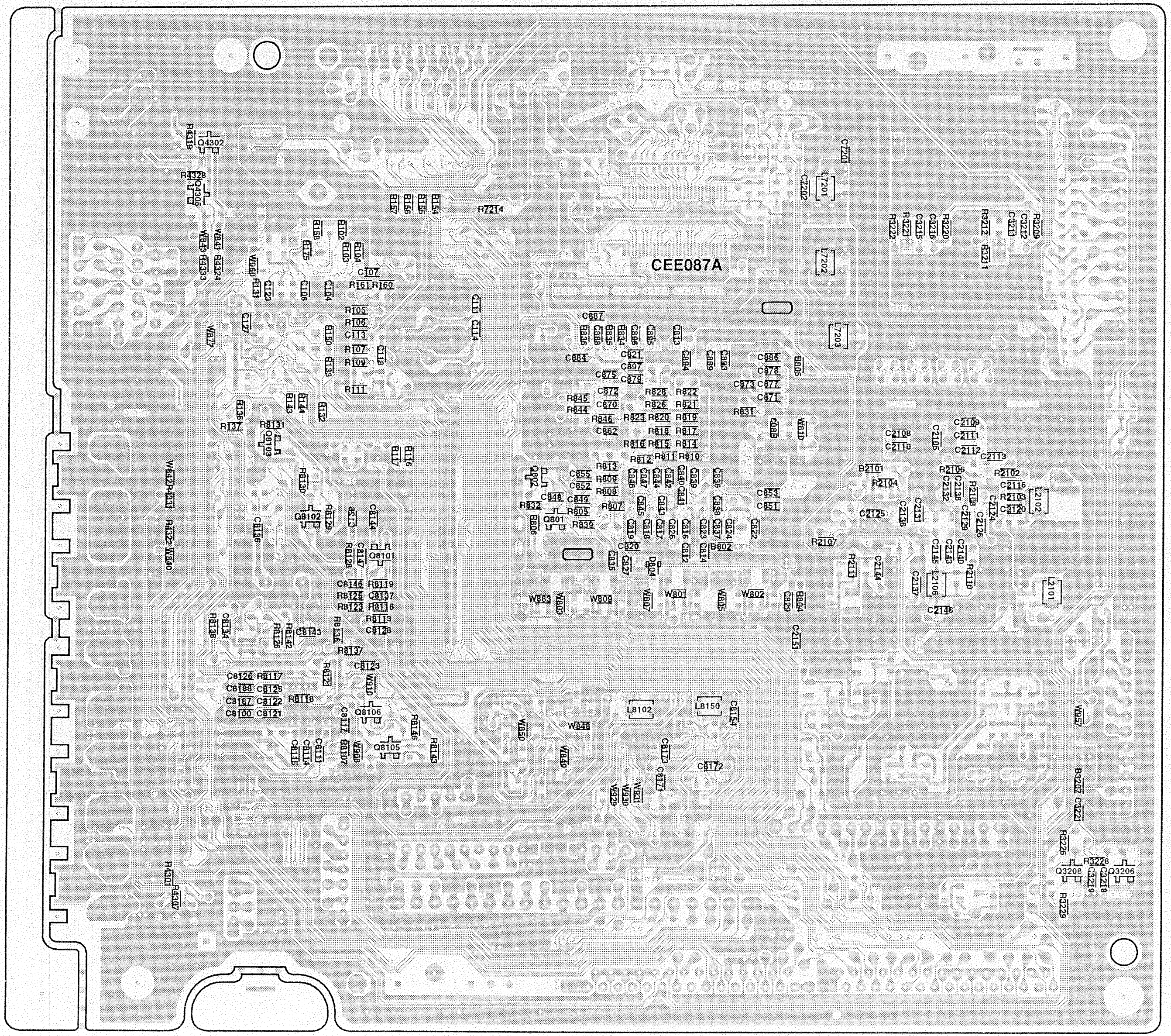
PRINTED CIRCUIT BOARDS
AV/OPERATION/TUNER/SIDE JACK (BOTTOM SIDE)


CEE125A
CEE127A
CEE126A
CEE128A
CME069A

SCALER (TOP SIDE)

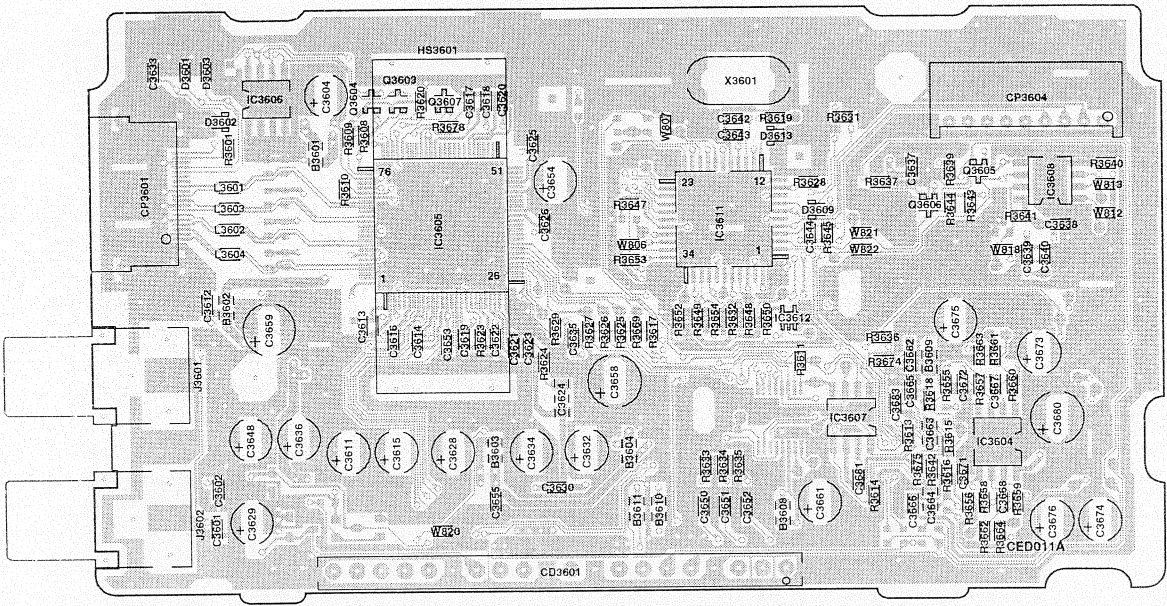

CEE087A
IC3201
IC3202
IC7201
IC101
IC2101
IC801
IC8102
IC8103
IC8151
IC8150
IC8152
IC102
IC104
IC4301
IC4302
IC4304
IC4305
CP7206
CP4302
CP3201
CP101
CP102
CP103
CP4301
CP2200
CP802
CP801
J4301
J4302
J4303
J4304
J4305
J4306
X101
X801
X8101
D3206
D3207
Q3205
Q3207
C3213
C3217
C7203
C7205
C7219
C7209
C7208
C2106
C2121
C2127
C3209
C2103
C2133
C2149
C815
C8153
C8131
C898
C856
C850
C110
C101
C116
C4324
C125
C4323
C8141
C8120
C8149
C8124
C8119
C8116
C8138
C4337
C4322
NR2101
NR2102
NR2103
NR2104
NR802
NR803
NR804
NR805
NR806
NR807

SCALER (BOTTOM SIDE)

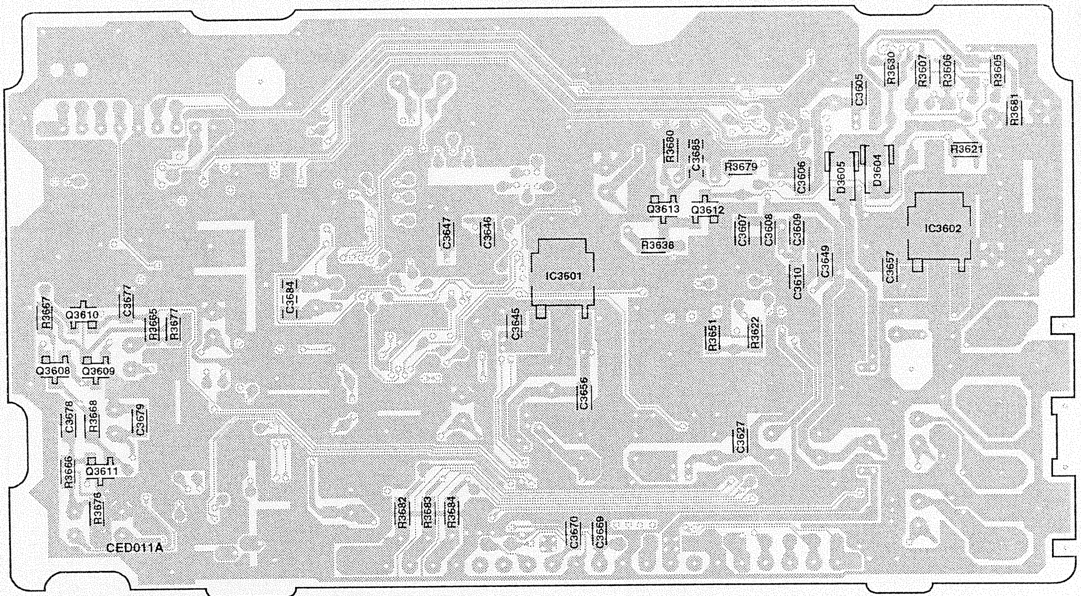

CEE087A
Q4302
Q4305
Q8101
Q8102
Q8103
Q8105
Q8106
Q801
Q3206
Q3208
L7201
L7202
L7203
L2101
L2102
L8102
L8150
R7214
R2101
R2102
R2104
R2107
R2111
R3226
R3228
R3229
C2106
C2110
C2111
C2112
C2113
C2116
C2125
C2146
C7201
C7202
C8107
C8100
W801
W802
W806
W809

PRINTED CIRCUIT BOARDS

HD-MI (TOP SIDE)

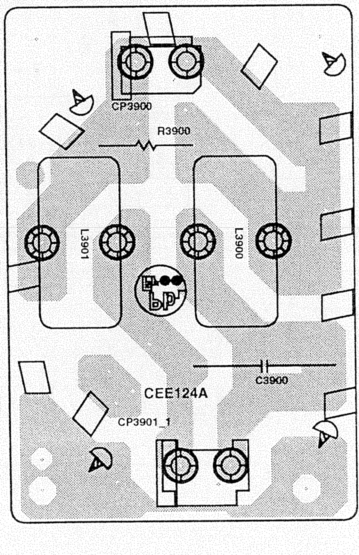

HS3601
C3633
D3601
D3605
IC3606
C3604
Q3603
Q3604
Q3607
R3620
C3617
C3618
C3620
D3602
R3601
R3600
R3608
R3678
B3601
CP3601
L3601
L3603
L3602
L3604
R3610
IC3605
76
51
1
26
C3625
C3654
C3626
X3601
W807
C3642
R3619
C3643
D3613
R3621
CP3604
R3647
W806
R3653
IC3611
23
12
34
1
R3628
D3609
C3644
R3645
W821
W822
R3637
C3637
Q3605
Q3606
R3639
R3644
R3649
IC3608
R3640
W813
W812
R3641
C3638
W818
C3639
C3640
C3612
B3602
C3659
J3601
C3613
C3616
C3614
C3653
C3619
R3623
C3622
C3621
C3623
R3629
C3635
R3627
R3626
R3625
R3669
R3617
R3624
C3624
C3658
R3652
R3654
R3632
R3648
R3650
R3651
R3636
R3674
C3662
C3675
R3663
R3661
C3673
IC3607
C3683
C3665
R3618
B3609
R3655
C3672
R3657
C3667
R3660
C3680
IC3604
C3648
C3636
C3611
C3615
C3628
B3603
C3634
C3632
B3604
C3630
C3655
B3611
B3610
R3633
R3634
R3635
C3650
C3651
C3652
B3608
C3661
C3681
R3614
R3613
R3675
R3612
R3616
R3615
C3671
C3666
C3664
C3663
R3658
R3656
C3668
R3659
R3662
R3664
C3676
C3674
CED011A
J3602
C3601
C3602
C3629
W820
CD3601

HD-MI (BOTTOM SIDE)


C3605
R3630
R3607
R3606
R3605
R3681
R3621
R3680
C3685
R3679
C3606
D3605
D3604
Q3613
Q3612
C3607
C3608
C3609
R3638
C3647
C3646
IC3601
IC3602
C3649
C3610
C3657
C3684
C3645
R3651
R3622
C3656
C3627
R3667
Q3610
C3677
R3665
R3677
Q3608
Q3609
C3678
R3668
C3679
R3666
Q3611
R3676
R3682
R3683
R3684
C3670
C3669
CED011A

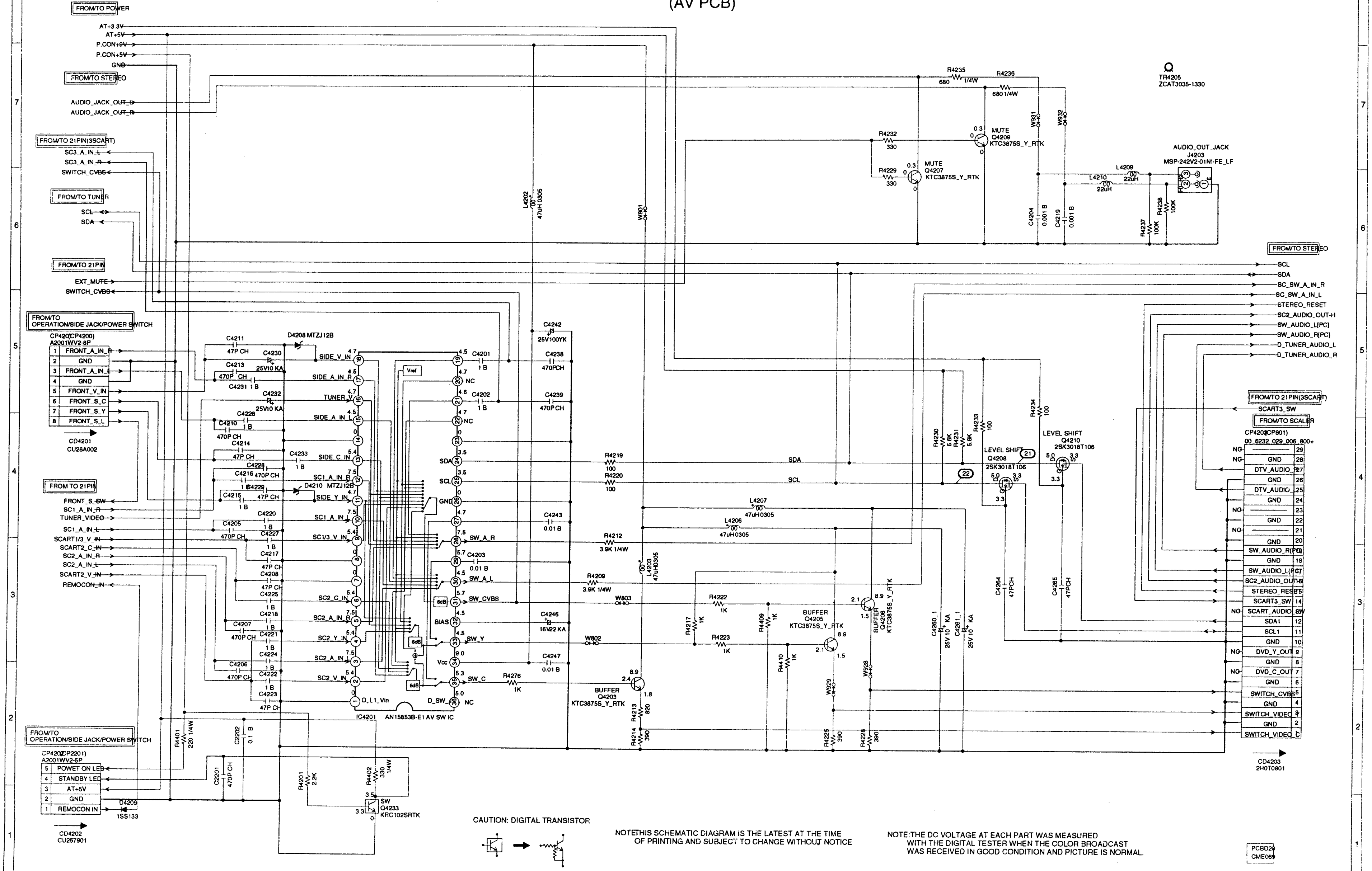
FILTER

SOLDER SIDE


CP3900
R3900
L3901
L3900
C3900
CEE124A
CP3901_1

AV SWITCH2 SCHEMATIC DIAGRAM

(AV PCB)



FROM/TO POWER
AT+3.3V
AT+5V
P.CON+9V
P.CON+5V
GND
FROM/TO STEREO
AUDIO_JACK_OUT_L
AUDIO_JACK_OUT_R
FROM/TO 21PIN(3SCART)
SC3_A_IN_L
SC3_A_IN_R
SWITCH_CVBS
FROM/TO TUNER
SCL
SDA
FROM/TO 21PIN
EXT_MUTE
SWITCH_CVBS
FROM/TO OPERATION/SIDE JACK/POWER SWITCH
CP4201(CP4200)
A2001WV2-8P
1 FRONT_A_IN_R
2 GND
3 FRONT_A_IN_L
4 GND
5 FRONT_V_IN
6 FRONT_S_C
7 FRONT_S_Y
8 FRONT_S_L
CD4201
CU28A002
FROM TO 21PIN
FRONT_S_SW
SC1_A_IN_R
TUNER_VIDEO
SC1_A_IN_L
SCART1/3_V_IN
SCART2_C_IN
SC2_A_IN_R
SC2_A_IN_L
SCART2_V_IN
REMOCON_IN
FROM/TO OPERATION/SIDE JACK/POWER SWITCH
CP4202(CP2201)
A2001WV2-5P
5 POWET ON LED
4 STANDBY LED
3 AT+5V
2 GND
1 REMOCON IN
D4209
1SS133
CD4202
CU257901
R4401 220 1/4W
C2202 0.1 B
C2201 470P CH
R4201 2.2K
R4402 330 1/4W
SW Q4233 KRC102SRTK
C4211 47P CH
C4230 25V10 KA
C4213 470P CH
C4231 1 B
C4232 25V10 KA
C4226
C4210 1 B
470P CH
C4214 47P CH
C4228
C4216 470P CH
C4229
C4215 1 B 47P CH
C4205 470P CH
C4220 1 B
C4227 1 B
C4217
47P CH
C4208
47P CH
C4225 1 B
C4218 1 B
C4207 470P CH
C4221 1 B
C4224 1 B
C4206 470P CH
C4222 1 B
C4223
47P CH
C4233 1 B
D4208 MTZJ12B
D4210 MTZJ12B
SIDE_V_IN
SIDE_A_IN_R
TUNER_V
SIDE_A_IN_L
SIDE_C_IN
SC1_A_IN_R
SIDE_Y_IN
SC1_A_IN
SC1/3_V_IN
SC2_C_IN
SC2_A_IN_R
SC2_Y_IN
SC2_A_IN
SC2_V_IN
D_L1_Vin
Vref
6dB
BIAS
Vcc
D_SW
NC
SDA
SCL
GND
SW_A_R
SW_A_L
SW_CVBS
SW_Y
SW_C
IC4201 AN15853B-E1 AV SW IC
C4201 1 B
C4202 1 B
C4203 0.01 B
C4242 25V100YK
C4238 470PCH
C4239 470P CH
C4243 0.01 B
C4246 16V22 KA
C4247 0.01 B
L4202 47uH0305
W801
R4219 100
R4220 100
R4212 3.9K 1/4W
R4209 3.9K 1/4W
W803
W802
R4276 1K
L4203 47uH0305
L4207 47uH0305
L4206 47uH0305
BUFFER Q4203 KTC3875S_Y_RTK
R4213 820
R4214 390
R4217 1K
R4222 1K
R4223 1K
R4409 1K
R4410 1K
BUFFER Q4205 KTC3875S_Y_RTK
BUFFER Q4206 KTC3875S_Y_RTK
W929
W928
R4225 390
R4228 390
SDA
SCL
R4235 680 1/4W
R4236 680 1/4W
R4232 330
R4229 330
MUTE Q4207 KTC3875S_Y_RTK
MUTE Q4209 KTC3875S_Y_RTK
W931
W932
TR4205 ZCAT3035-1330
AUDIO_OUT_JACK J4203 MSP-242V2-01NI-FE_LF
L4210 22uH
L4209 22uH
C4204 0.001 B
C4219 0.001 B
R4237 100K
R4238 100K
R4230 5.6K
R4231 5.6K
R4233 100
R4234 100
LEVEL SHIFT Q4208 2SK3018T106
LEVEL SHIFT Q4210 2SK3018T106
C4264 47PCH
C4265 47PCH
C4260_1 25V10 KA
C4261_1 25V10 KA
FROM/TO STEREO
SCL
SDA
SC_SW_A_IN_R
SC_SW_A_IN_L
STEREO_RESET
SC2_AUDIO_OUT-H
SW_AUDIO_L[PC]
SW_AUDIO_R[PC]
D_TUNER_AUDIO_L
D_TUNER_AUDIO_R
FROM/TO 21PIN(3SCART)
SCART3_SW
FROM/TO SCALER
CP4203(CP801)
00_6232_029_006_800+
29 NC
28 GND
27 DTV_AUDIO_R
26 GND
25 DTV_AUDIO_L
24 GND
23 NC
22 GND
21 NC
20 GND
19 SW_AUDIO_R(PC)
18 GND
17 SW_AUDIO_L(PC)
16 SC2_AUDIO_OUT
15 STEREO_RESET
14 SCART3_SW
13 SCART_AUDIO_SW
12 SDA1
11 SCL1
10 GND
9 DVD_Y_OUT
8 GND
7 DVD_C_OUT
6 GND
5 SWITCH_CVBS
4 GND
3 SWITCH_VIDEO
2 GND
1 SWITCH_VIDEO
CD4203
2H0T0801

CAUTION: DIGITAL TRANSISTOR

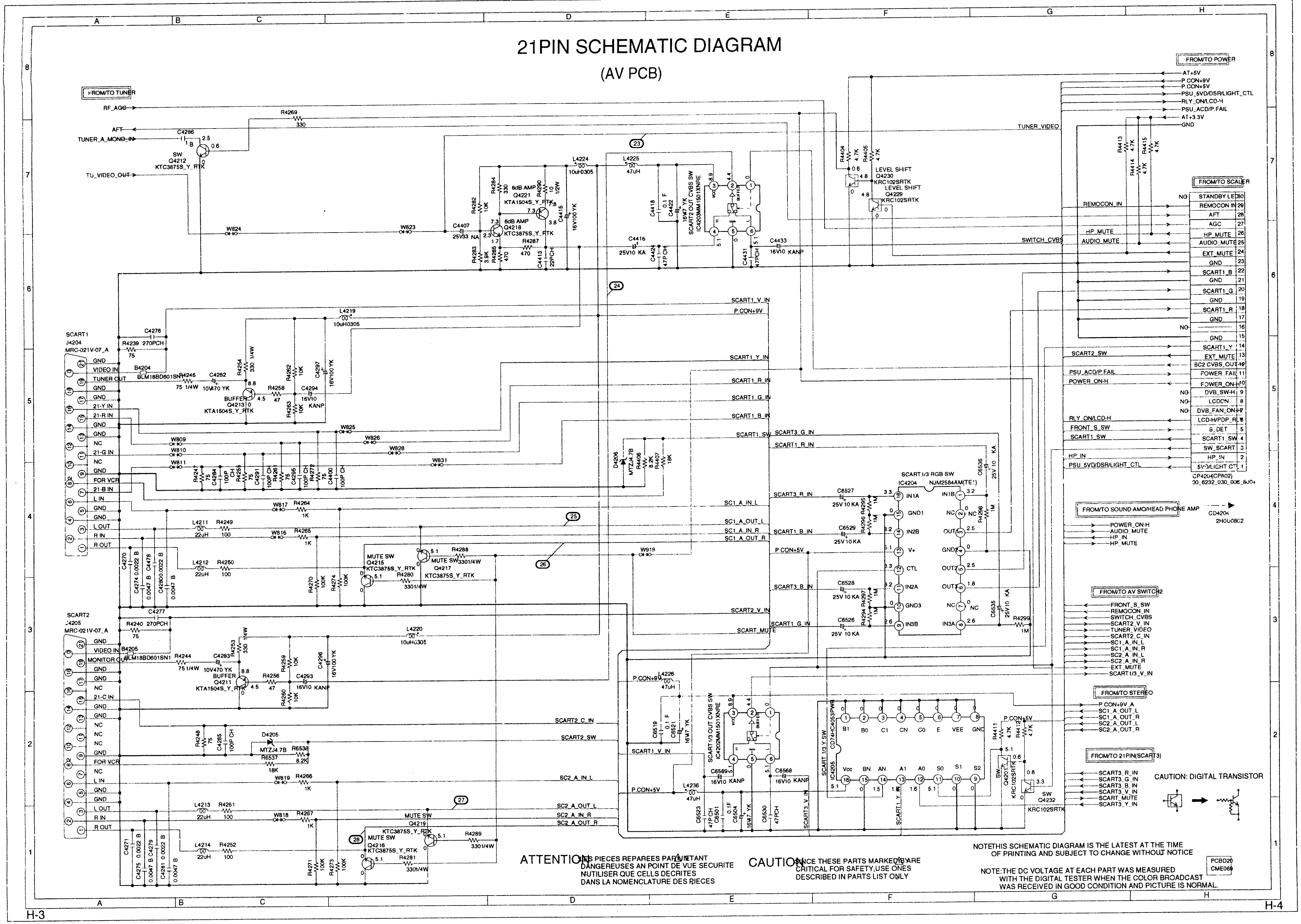
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CME069

21PIN SCHEMATIC DIAGRAM

(AV PCB)


FROM/TO TUNER
RF_AGC
AFT
TUNER_A_MONO_IN
TU_VIDEO_OUT
SW Q4212 KTC3875S_Y_RTK
R4269 330
C4286
6dB AMP Q4221 KTA1504S_Y_RTK
6dB AMP Q4218 KTC3875S_Y_RTK
L4224 10uH0305
L4225 47uH
SCART2 OUT CVBS SW IC4203MM1501XNRE
LEVEL SHIFT Q4230 KRC102SRTK
LEVEL SHIFT Q4229 KRC102SRTK
TUNER_VIDEO
SWITCH_CVBS
FROM/TO POWER
AT+5V
P.CON+9V
P.CON+5V
PSU_5VD/DSR/LIGHT_CTL
RLY_ON/LCD-H
PSU_ACD/P.FAIL
AT+3.3V
GND
FROM/TO SCALER
STANDBY LED
REMOCON IN
AFT
AGC
HP_MUTE
AUDIO_MUTE
EXT_MUTE
SCART1_B
SCART1_G
SCART1_R
SCART1_Y
SC2 CVBS_OUT
POWER FAIL
POWER_ON-H
DVB_SW-H
LCDON
DVB_FAN_ON
LCD-H/PDP_R
S_DET
SCART1_SW
SW_SCART
HP_IN
5VD/LIGHT C
CP4204(CP802) 00_6232_030_006_800+
SCART1 J4204 MRC-021V-07_A
VIDEO IN
TUNER OUT
21-Y IN
21-R IN
21-G IN
FOR VCR
21-B IN
L IN
L OUT
R IN
R OUT
BUFFER Q4213 KTA1504S_Y_RTK
MUTE SW Q4215 KTC3875S_Y_RTK
MUTE SW Q4217 KTC3875S_Y_RTK
SCART1/3 RGB SW IC4204 NJM2584AM(TE1)
IN1A GND1 IN2B V+ CTL IN2A GND3 IN3B
IN1B NC OUT GND OUT OUT NC IN3A
FROM/TO SOUND AMP/HEAD PHONE AMP
CD4204 2H0U0802
POWER_ON-H
AUDIO_MUTE
HP_IN
HP_MUTE
FROM/TO AV SWITCH2
FRONT_S_SW
REMOCON_IN
SWITCH_CVBS
SCART2_V_IN
TUNER_VIDEO
SCART2_C_IN
SC1_A_IN_L
SC1_A_IN_R
SC2_A_IN_L
SC2_A_IN_R
EXT_MUTE
SCART1/3_V_IN
SCART2 J4205 MRC-021V-07_A
MONITOR OUT
21-C IN
BUFFER Q4211 KTA1504S_Y_RTK
MUTE SW Q4219 KTC3875S_Y_RTK
MUTE SW Q4216 KTC3875S_Y_RTK
SCART1/3 OUT CVBS SW IC4202MM1501XNRE
SCART 1/3_Y SW IC4205 CD74HC4053PWR
FROM/TO STEREO
P.CON+9V_A
SC1_A_OUT_L
SC1_A_OUT_R
SC2_A_OUT_L
SC2_A_OUT_R
FROM/TO 21PIN(SCART3)
SCART3_R_IN
SCART3_G_IN
SCART3_B_IN
SCART3_V_IN
SCART_MUTE
SCART3_Y_IN
SW Q4231 KRC102SRTK
SW Q4232 KRC102SRTK
CAUTION: DIGITAL TRANSISTOR
A B C D E F G H
1 2 3 4 5 6 7 8

ATTENTION LES PIECES REPAREES PAR ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY

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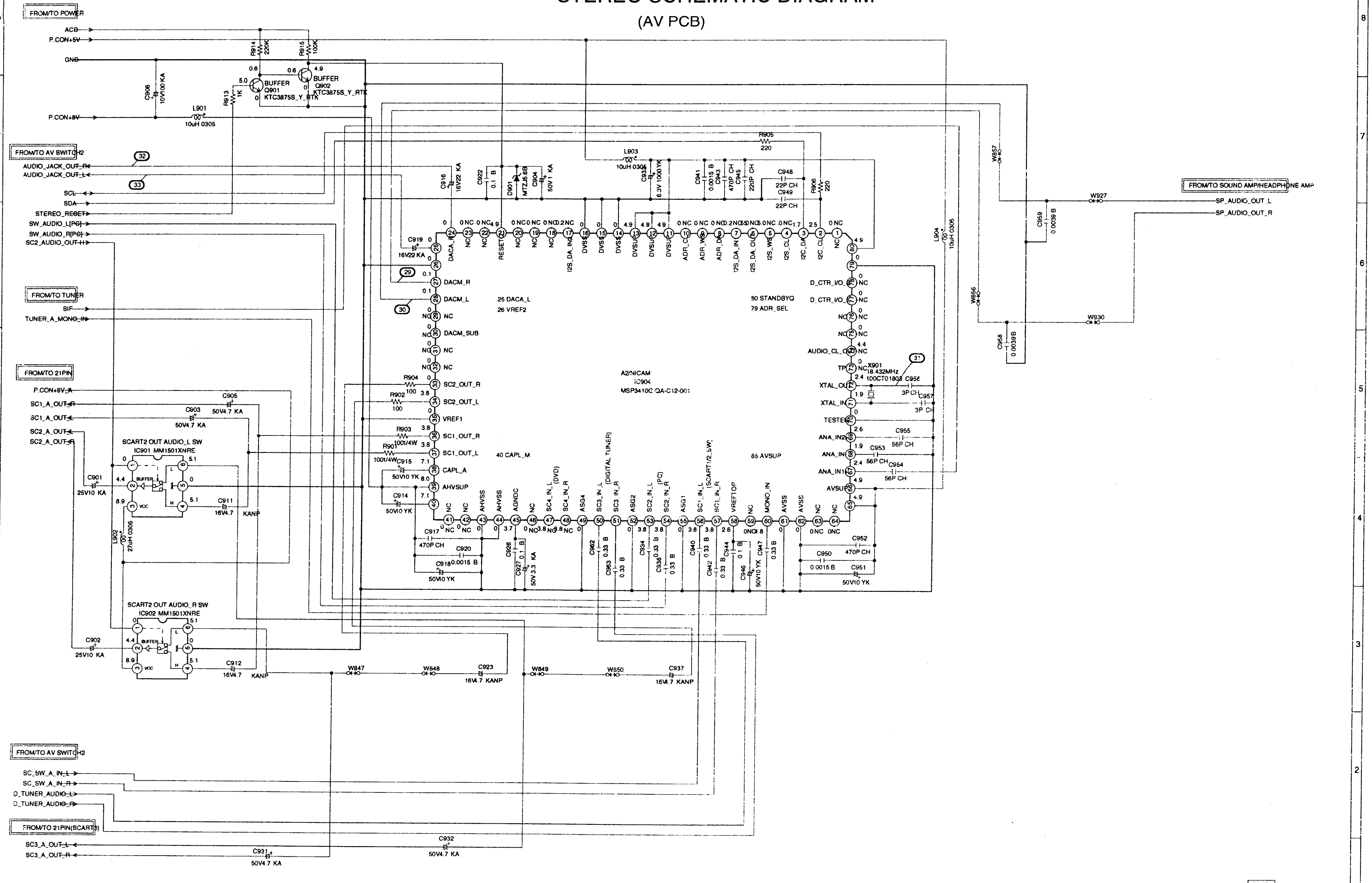
PCBD20
CME069

STEREO SCHEMATIC DIAGRAM

(AV PCB)



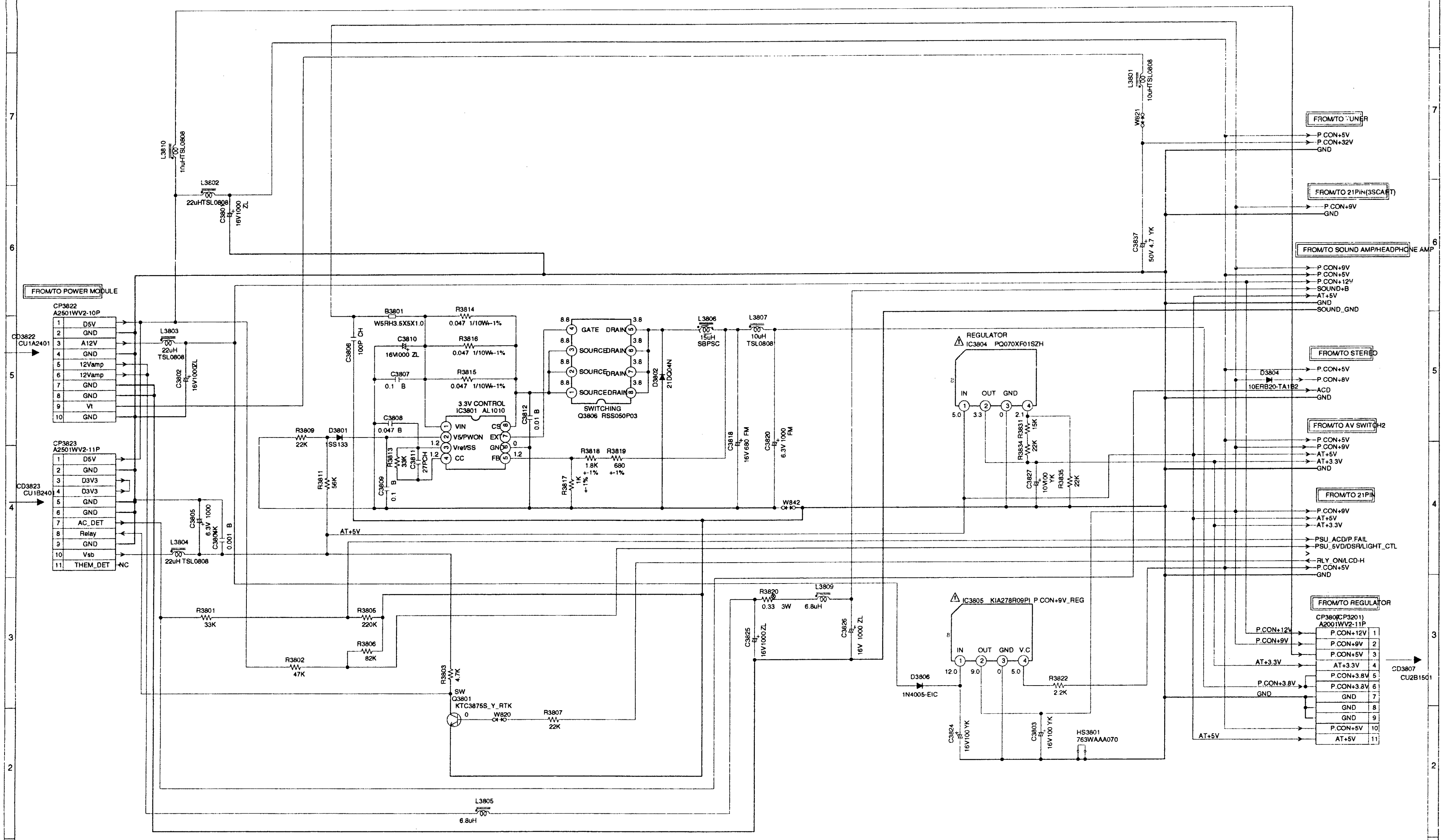
FROM/TO POWER
ACB
P.CON+5V
GND
P.CON+8V
C906 10V100 KA
L901 10uH 0305
R914 1K 220K
R915 1K 100K
R913 1K
BUFFER Q901 KTC3875S_Y_RTK
BUFFER Q902 KTC3875S_Y_RTK
FROM/TO AV SWITCH2
AUDIO_JACK_OUT_R
AUDIO_JACK_OUT_L
SCL
SDA
STEREO_RESET
SW_AUDIO_L[PC]
SW_AUDIO_R[PC]
SC2_AUDIO_OUT-H
FROM/TO TUNER
SIF
TUNER_A_MONO_IN
FROM/TO 21PIN
P.CON+9V_A
SC1_A_OUT_R
SC1_A_OUT_L
SC2_A_OUT_L
SC2_A_OUT_R
C903 50V4.7 KA
C905 50V4.7 KA
SCART2 OUT AUDIO_L SW
IC901 MM1501XNRE
C901 25V10 KA
C911 16V4.7 KANP
L902 27uH 0305
SCART2 OUT AUDIO_R SW
IC902 MM1501XNRE
C902 25V10 KA
C912 16V4.7 KANP
W847
W848
C923 16V4.7 KANP
W849
W850
C937 16V4.7 KANP
FROM/TO AV SWITCH2
SC_SW_A_IN_L
SC_SW_A_IN_R
D_TUNER_AUDIO_L
D_TUNER_AUDIO_R
FROM/TO 21PIN(SCART3)
SC3_A_OUT_L
SC3_A_OUT_R
C931 50V4.7 KA
C932 50V4.7 KA
A2/NICAM
IC904
MSP3410C QA-C12-001
25 DACA_L
26 VREF2
40 CAPL_M
50 STANDBYQ
79 ADR_SEL
65 AVSUP
C916 16V22 KA
C922 0.1 B
D901 MTZJ5.6B
C904 50V1 KA
L903 10uH 0305
C935 6.3V 1000 YK
C941 0.0015 B
C943 470P CH
C945 220P CH
C948 22P CH
C949 22P CH
R905 220
R906 220
C919 16V22 KA
DACA_R
NC
RESET
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN2
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
DACM_R
DACM_L
DACM_SUB
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
R904 100
R902 100
R903 1001/4W
R901 1001/4W
C915 50V10 YK
C914 50V10 YK
D_CTR_I/O_0
D_CTR_I/O_1
AUDIO_CL_OUT
TP
XTAL_OUT
XTAL_IN
TESTEN
ANA_IN2+
ANA_IN-
ANA_IN1+
AVSUP
X901 18.432MHz 100CT0180S
C956 3P CH
C957 3P CH
C955 56P CH
C953 56P CH
C954 56P CH
AHVSS
AGNDC
SC4_IN_L
SC4_IN_R
(DVD)
ASG4
SC3_IN_L
SC3_IN_R
(DIGITAL TUNER)
ASG2
SC2_IN_L
SC2_IN_R
(PC)
ASG1
SC1_IN_L
SC1_IN_R
(SCART1/2_SW)
VREFTOP
MONO_IN
AVSS
C917 470P CH
C920 0.0015 B
C918 50V10 YK
C928 0.1 B
C927 50V 3.3 KA
C962 0.33 B
C963 0.33 B
C934 0.33 B
C936 0.33 B
C940 0.33 B
C942 0.33 B
C944 0.1 B
C946 50V10 YK
C947 0.33 B
C952 470P CH
C950 0.0015 B
C951 50V10 YK
L904 10uH 0305
W957
W956
C959 0.0039 B
C958 0.0039 B
W927
W930
FROM/TO SOUND AMP/HEADPHONE AMP
SP_AUDIO_OUT_L
SP_AUDIO_OUT_R
(29)
(30)
(31)
(32)
(33)
PCBD20
CME069

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

POWER SCHEMATIC DIAGRAM

(AV PCB)


FROM/TO POWER MODULE
CP3822
A2501WV2-10P
CD3822
CU1A2401
1 D5V
2 GND
3 A12V
4 GND
5 12Vamp
6 12Vamp
7 GND
8 GND
9 Vt
10 GND
CP3823
A2501WV2-11P
CD3823
CU1B2401
1 D5V
2 GND
3 D3V3
4 D3V3
5 GND
6 GND
7 AC_DET
8 Relay
9 GND
10 Vsb
11 THEM_DET
NC
L3810
10uHTSL0808
L3802
22uHTSL0808
C3801
16V1000
ZL
L3803
22uH
TSL0808
C3802
16V1000ZL
C3805
6.3V 1000
C3804K
0.001 B
L3804
22uH TSL0808
AT+5V
B3801
W5RH3.5X5X1.0
R3814
0.047 1/10W+-1%
C3810
16V1000 ZL
R3816
0.047 1/10W+-1%
C3807
0.1 B
R3815
0.047 1/10W+-1%
C3806
100P CH
C3808
0.047 B
3.3V CONTROL
IC3801 AL1010
VIN
V5/PWON
Vref/SS
CC
CS
EXT
GND
FB
C3812
0.01 B
R3809
22K
D3801
1SS133
R3813
33K
C3811
27PCH
C3809
0.1 B
R3811
56K
GATE
DRAIN
SOURCE
SWITCHING
Q3806 RSS050P03
D3802
21DQ04N
R3818
1.8K +-1%
R3819
680 +-1%
R3817
1K +-1%
L3806
15uH
SBPSC
L3807
10uH
TSL0808
C3818
16V 680 FM
C3820
6.3V 1000 FM
W842
L3801
10uHTSL0808
W821
C3837
50V 4.7 YK
REGULATOR
IC3804 PQ070XF01SZH
IN
OUT
GND
R3831
15K
R3834
22K
C3827
10V100 YK
R3835
22K
D3804
10ERB20-TA1B2
R3801
33K
R3805
220K
R3806
82K
R3802
47K
R3803
4.7K
SW
Q3801
KTC3875S_Y_RTK
W820
R3807
22K
R3820
0.33 3W
L3809
6.8uH
C3825
16V1000 ZL
C3826
16V 1000 ZL
IC3805 KIA278R09PI P.CON+9V_REG
IN
OUT
GND
V.C
D3806
1N4005-EIC
C3824
16V100 YK
C3803
16V100 YK
R3822
2.2K
HS3801
763WAAA070
L3805
6.8uH
FROM/TO TUNER
P.CON+5V
P.CON+32V
GND
FROM/TO 21PIN(3SCART)
P.CON+9V
GND
FROM/TO SOUND AMP/HEADPHONE AMP
P.CON+9V
P.CON+5V
P.CON+12V
SOUND+B
AT+5V
GND
SOUND_GND
FROM/TO STEREO
P.CON+5V
P.CON+8V
ACD
GND
FROM/TO AV SWITCH2
P.CON+5V
P.CON+9V
AT+5V
AT+3.3V
GND
FROM/TO 21PIN
P.CON+9V
AT+5V
AT+3.3V
PSU_ACD/P.FAIL
PSU_5VD/DSR/LIGHT_CTL
RLY_ON/LCD-H
P.CON+5V
GND
FROM/TO REGULATOR
CP3806(CP3201)
A2001WV2-11P
1 P.CON+12V
2 P.CON+9V
3 P.CON+5V
4 AT+3.3V
5 P.CON+3.8V
6 P.CON+3.8V
7 GND
8 GND
9 GND
10 P.CON+5V
11 AT+5V
CD3807
CU2B1501

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

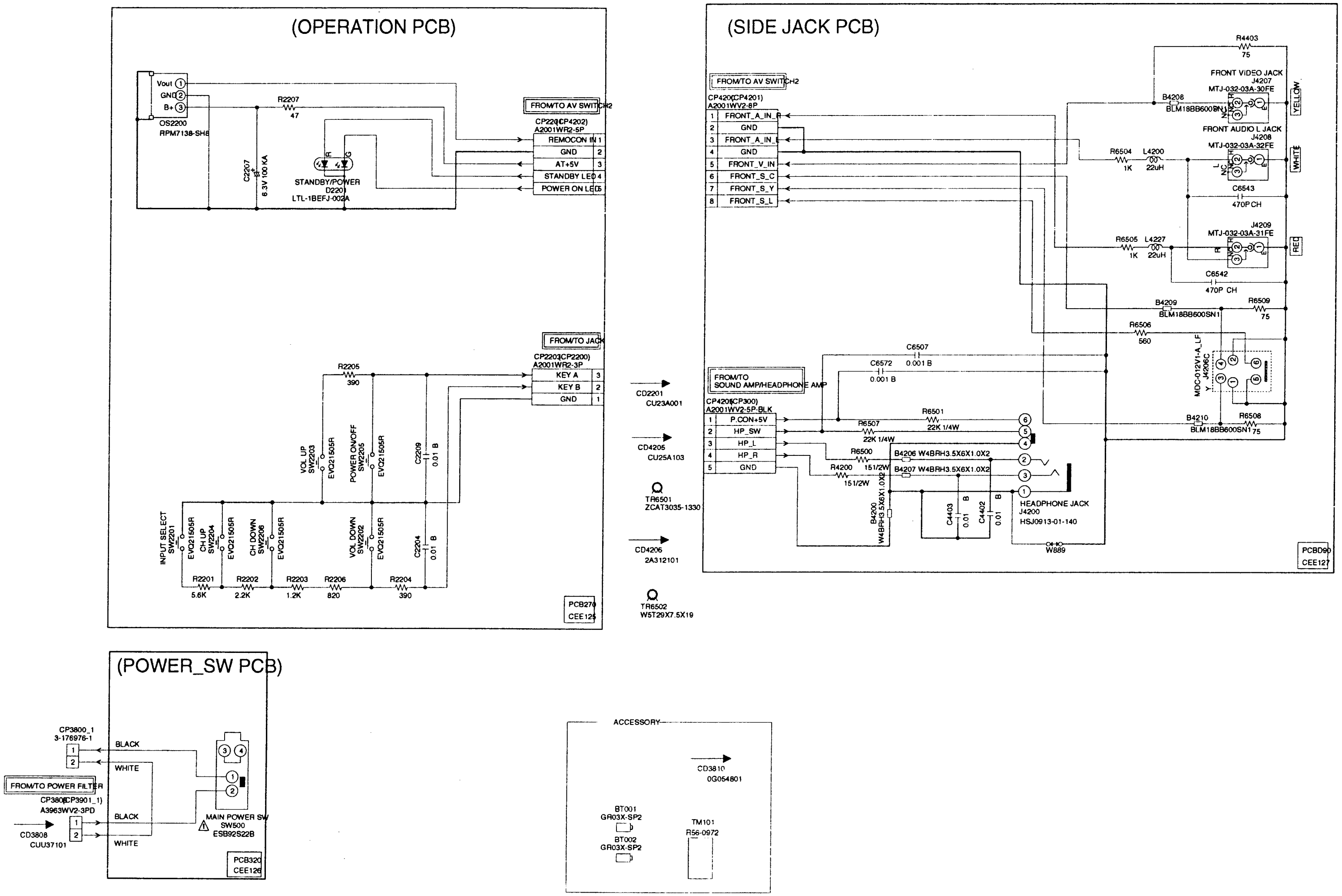
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

PCBD20
CME069

OPERATION/SIDE JACK/POWER SWITCH SCHEMATIC DIAGRAM


(OPERATION PCB)
Vout ①
GND ②
B+ ③
OS2200
RPM7138-SH8
R2207
47
C2207
6.3V 100 KA
STANDBY/POWER
D220
LTL-1BEFJ-002A
FROM/TO AV SWITCH2
CP2201(CP4202)
A2001WR2-5P
REMOCON IN 1
GND 2
AT+5V 3
STANDBY LED 4
POWER ON LED 5
FROM/TO JACK
CP2202(CP2200)
A2001WR2-3P
KEY A 3
KEY B 2
GND 1
R2205
390
VOL UP
SW2203
EVQ21505R
POWER ON/OFF
SW2205
EVQ21505R
C2209
0.01 B
INPUT SELECT
SW2201
EVQ21505R
CH UP
SW2204
EVQ21505R
CH DOWN
SW2206
EVQ21505R
VOL DOWN
SW2202
EVQ21505R
C2204
0.01 B
R2201
5.6K
R2202
2.2K
R2203
1.2K
R2206
820
R2204
390
PCB270
CEE125
(SIDE JACK PCB)
FROM/TO AV SWITCH2
CP4200(CP4201)
A2001WV2-8P
1 FRONT_A_IN_R
2 GND
3 FRONT_A_IN_L
4 GND
5 FRONT_V_IN
6 FRONT_S_C
7 FRONT_S_Y
8 FRONT_S_L
R4403
75
FRONT VIDEO JACK
J4207
MTJ-032-03A-30FE
B4208
BLM18BB600SN1
YELLOW
FRONT AUDIO L JACK
J4208
MTJ-032-03A-32FE
R6504
1K
L4200
22uH
WHITE
C6543
470P CH
J4209
MTJ-032-03A-31FE
R6505
1K
L4227
22uH
RED
C6542
470P CH
B4209
BLM18BB600SN1
R6509
75
R6506
560
MDC-012V1-A_LF
J4206C
C6507
0.001 B
C6572
0.001 B
FROM/TO
SOUND AMP/HEADPHONE AMP
CP4205(CP300)
A2001WV2-5P-BLK
1 P.CON+5V
2 HP_SW
3 HP_L
4 HP_R
5 GND
R6501
22K 1/4W
R6507
22K 1/4W
R6500
151/2W
R4200
151/2W
B4206 W4BRH3.5X6X1.0X2
B4207 W4BRH3.5X6X1.0X2
B4210
BLM18BB600SN1
R6508
75
B4200
W4BRH3.5X6X1.0X2
C4403
0.01 B
C4402
0.01 B
HEADPHONE JACK
J4200
HSJ0913-01-140
W889
PCBD90
CEE127
CD2201
CU23A001
CD4205
CU25A103
TR6501
ZCAT3035-1330
CD4206
2A312101
TR6502
W5T29X7.5X19
(POWER_SW PCB)
CP3800_1
3-176976-1
BLACK
WHITE
FROM/TO POWER FILTER
CP3808(CP3901_1)
A3963WV2-3PD
CD3808
CUU37101
BLACK
WHITE
MAIN POWER SW
SW500
ESB92S22B
PCB320
CEE126
ACCESSORY
CD3810
0G054801
BT001
GR03X-SP2
BT002
GR03X-SP2
TM101
R56-0972

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

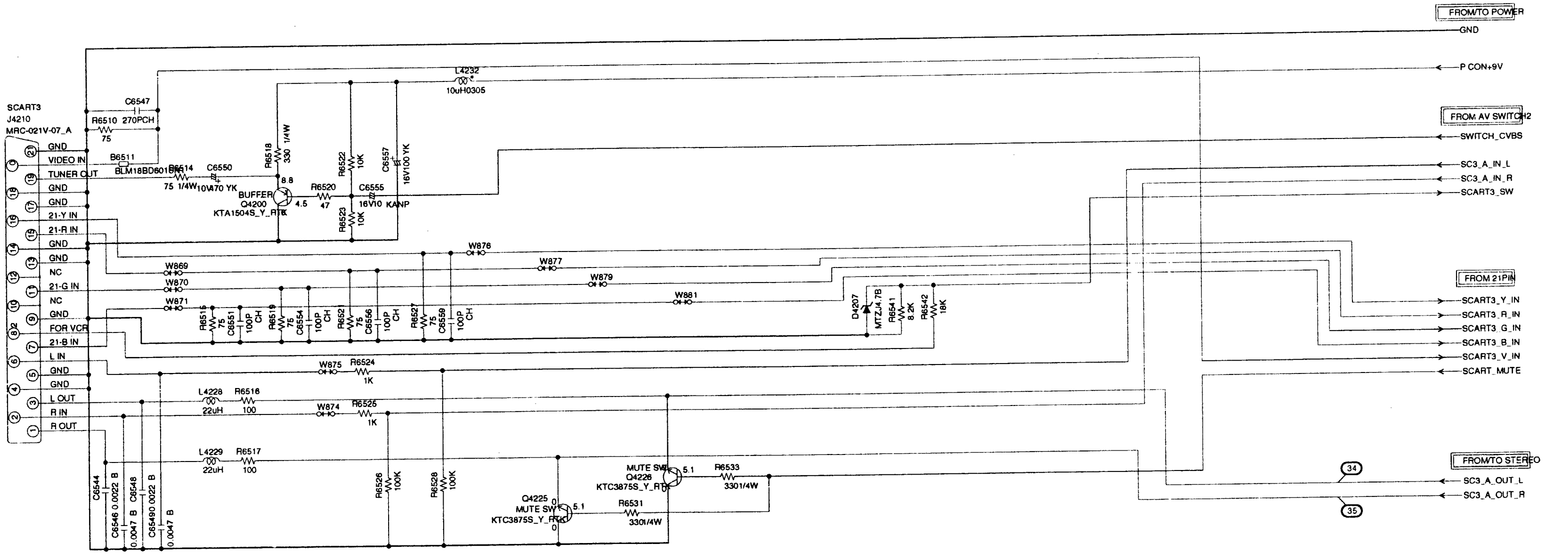
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ SONT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

21PIN(3SCART) SCHEMATIC DIAGRAM

(AV PCB)


SCART3
J4210
MRC-021V-07_A
GND
VIDEO IN
TUNER OUT
GND
GND
21-Y IN
21-R IN
GND
GND
NC
21-G IN
NC
GND
FOR VCR
21-B IN
L IN
GND
GND
L OUT
R IN
R OUT
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
C6547
R6510 270PCH
75
B6511
BLM18BD601SN1
R6514
75 1/4W
C6550
10V470 YK
R6518
330 1/4W
8.8
BUFFER
Q4200
KTA1504S_Y_RTK
4.5
R6520
47
R6522
10K
R6523
10K
C6557
16V100 YK
C6555
16V10 KANP
L4232
10uH0305
W869
W870
W871
W876
W877
W879
W881
R6515
75
C6551
100P CH
R6519
75
C6554
100P CH
R6521
75
C6556
100P CH
R6527
75
C6559
100P CH
D4207
MTZJ4.7B
R6541
8.2K
R6542
18K
W875
R6524
1K
L4228
22uH
R6516
100
W874
R6525
1K
L4229
22uH
R6517
100
C6544
C6546 0.0022 B
0.0047 B
C6548
C6549 0.0022 B
0.0047 B
R6526
100K
R6528
100K
Q4225
MUTE SW
KTC3875S_Y_RTK
0
5.1
0
MUTE SW
Q4226
KTC3875S_Y_RTK
5.1
0
R6533
3301/4W
R6531
3301/4W
FROM/TO POWER
GND
P CON+9V
FROM AV SWITCH2
SWITCH_CVBS
SC3_A_IN_L
SC3_A_IN_R
SCART3_SW
FROM 21PIN
SCART3_Y_IN
SCART3_R_IN
SCART3_G_IN
SCART3_B_IN
SCART3_V_IN
SCART_MUTE
FROM/TO STEREO
34
35
SC3_A_OUT_L
SC3_A_OUT_R

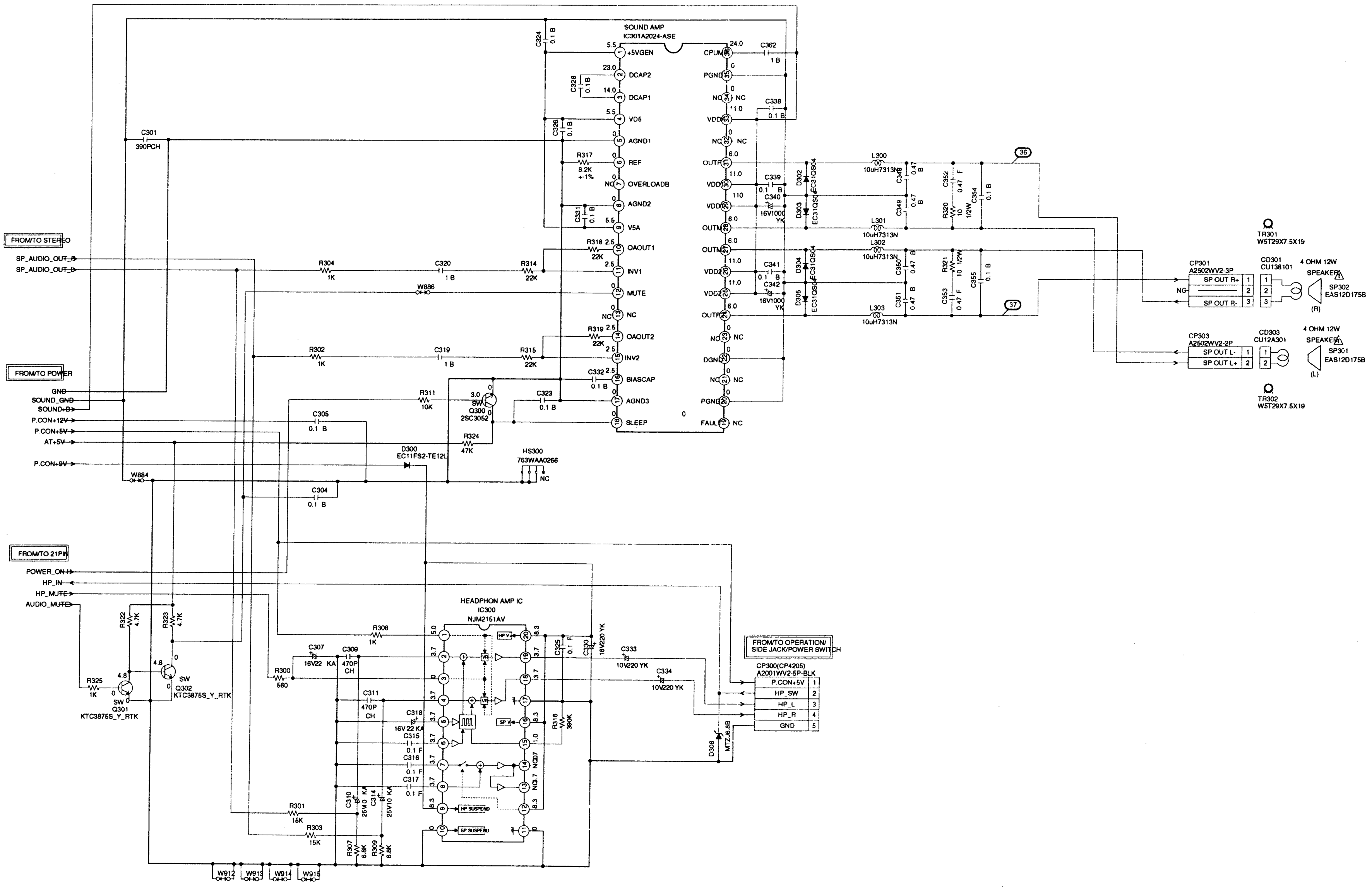
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CME069

SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM

(AV PCB)


SOUND AMP
IC30TA2024-ASE
+5VGEN
DCAP2
DCAP1
V5
AGND1
REF
OVERLOADB
AGND2
V5A
OAOUT1
INV1
MUTE
NC
OAOUT2
INV2
BIASCAP
AGND3
SLEEP
CPUMP
PGND
VDD
OUTP1
OUTM1
OUTM2
VDD2
OUTP2
DGND
FAULT
C324 0.1 B
C328 0.1 B
C326 0.1B
C331 0.1 B
C301 390PCH
R317 8.2K +-1%
R318 22K
R319 22K
C332 0.1 B
C323 0.1 B
C362 1 B
C338 0.1 B
C339 0.1 B
C340 16V1000 YK
C341 0.1 B
C342 16V1000 YK
D302
D303
D304
D305
EC31QS04
L300 10uH7313N
L301 10uH7313N
L302 10uH7313N
L303 10uH7313N
C348 0.47 B
C349 0.47 B
C350 0.47 B
C351 0.47 B
C352 0.47 F
C353 0.47 F
R320 10 1/2W
R321 10 1/2W
C354 0.1 B
C355 0.1 B
36
37
TR301 W5T29X7.5X19
TR302 W5T29X7.5X19
CP301 A2502WV2-3P
SP OUT R+
SP OUT R-
NC
CD301 CU138101
4 OHM 12W
SPEAKER
SP302 EAS12D175B
(R)
CP303 A2502WV2-2P
SP OUT L-
SP OUT L+
CD303 CU12A301
SP301 EAS12D175B
(L)
FROM/TO STEREO
SP_AUDIO_OUT_R
SP_AUDIO_OUT_L
R304 1K
C320 1 B
R314 22K
W886
R302 1K
C319 1 B
R315 22K
FROM/TO POWER
GND
SOUND_GND
SOUND+B
P.CON+12V
P.CON+5V
AT+5V
P.CON+9V
R311 10K
SW
Q300 2SC3052
C305 0.1 B
R324 47K
D300 EC11FS2-TE12L
HS300 763WAA0266
NC
W884
C304 0.1 B
FROM/TO 21PIN
POWER_ON
HP_IN
HP_MUTE
AUDIO_MUTE
R322 4.7K
R323 4.7K
R325 1K
Q301 KTC3875S_Y_RTK
Q302 KTC3875S_Y_RTK
HEADPHON AMP IC
IC300
NJM2151AV
R308 1K
C307 16V22 KA
C309 470P CH
R300 560
C311 470P CH
C318 16V22 KA
C315 0.1 F
C316 0.1 F
C317 0.1 F
C310 25V10 KA
C314 25V10 KA
R301 15K
R303 15K
R307 6.8K
R309 6.8K
HP V
SP V
HP SUSPEND
SP SUSPEND
NC
C325 0.1 F
C330 16V220 YK
C333 10V220 YK
C334 10V220 YK
R316 390K
D308 MTZJ6.8B
FROM/TO OPERATION/ SIDE JACK/POWER SWITCH
CP300(CP4205) A2001WV2-5P-BLK
P.CON+5V
HP_SW
HP_L
HP_R
GND
W912
W913
W914
W915

CAUTION:SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

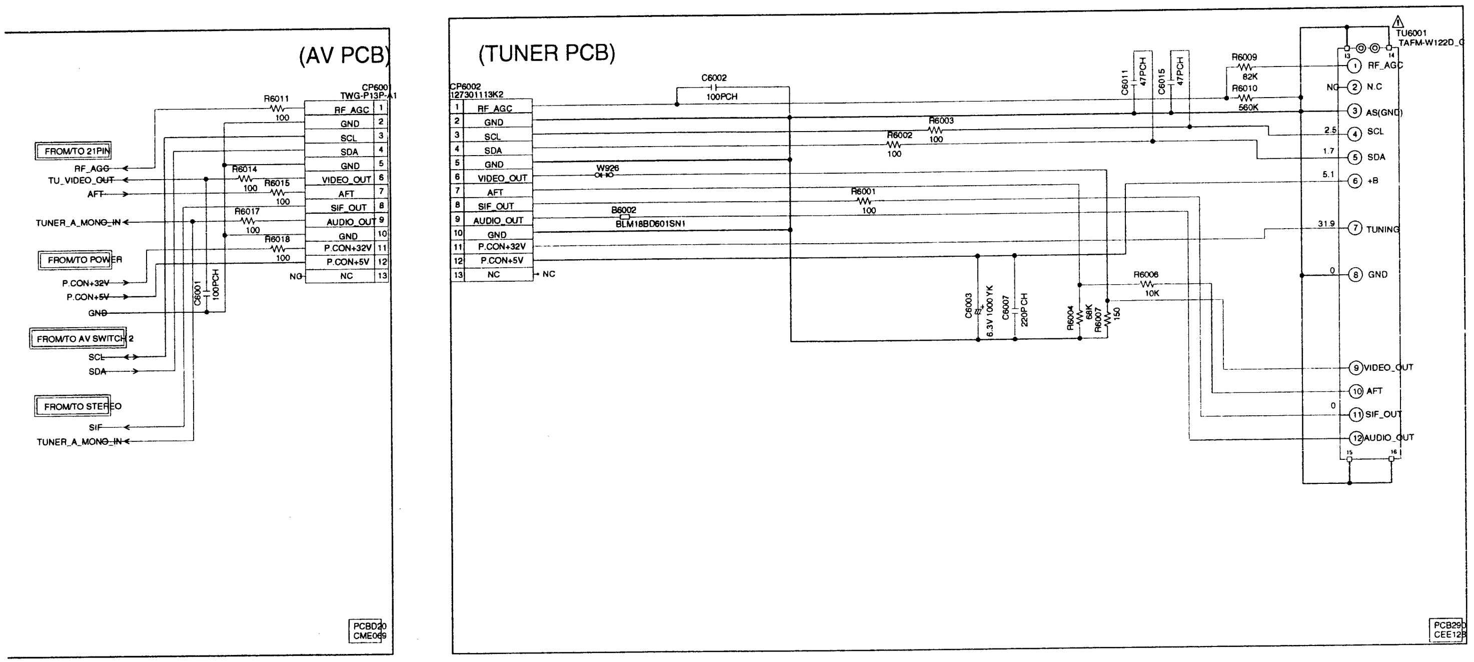
ATTENTION:LES PIECES REPAREES PAR ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CME069

TUNER SCHEMATIC DIAGRAM


(AV PCB)
CP6001
TWG-P13P-A1
R6011
100
RF_AGC 1
GND 2
SCL 3
SDA 4
GND 5
VIDEO_OUT 6
AFT 7
SIF_OUT 8
AUDIO_OUT 9
GND 10
P.CON+32V 11
P.CON+5V 12
NC 13
NC
R6014
100
R6015
100
R6017
100
R6018
100
FROM/TO 21PIN
RF_AGC
TU_VIDEO_OUT
AFT
TUNER_A_MONO_IN
FROM/TO POWER
P.CON+32V
P.CON+5V
GND
C6001
100PCH
FROM/TO AV SWITCH 2
SCL
SDA
FROM/TO STEREO
SIF
TUNER_A_MONO_IN
PCBD20
CME065
(TUNER PCB)
CP6002
127301113K2
1 RF_AGC
2 GND
3 SCL
4 SDA
5 GND
6 VIDEO_OUT
7 AFT
8 SIF_OUT
9 AUDIO_OUT
10 GND
11 P.CON+32V
12 P.CON+5V
13 NC
NC
C6002
100PCH
W926
B6002
BLM18BD601SN1
R6001
100
R6002
100
R6003
100
C6011
47PCH
C6015
47PCH
R6009
82K
R6010
560K
C6003
6.3V 1000 YK
C6007
220PCH
R6004
68K
R6007
150
R6006
10K
TU6001
TAFM-W122D_C
13
14
1 RF_AGC
NC
2 N.C
3 AS(GND)
2.5
4 SCL
1.7
5 SDA
5.1
6 +B
31.9
7 TUNING
0
8 GND
9 VIDEO_OUT
10 AFT
0
11 SIF_OUT
12 AUDIO_OUT
15
16
PCB290
CEE128

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

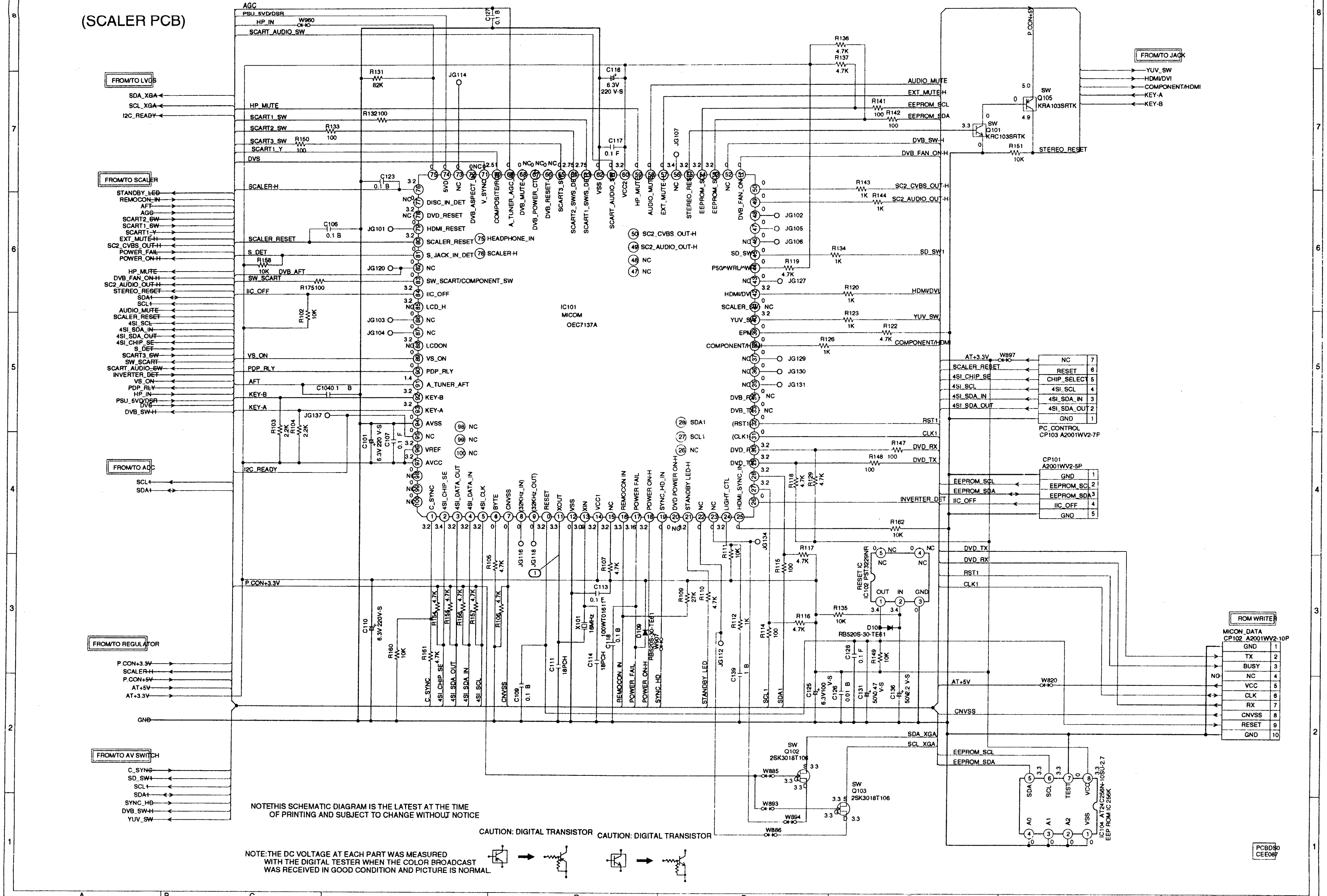
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY

ATTENTION LES PIECES REPAREES PAR ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

MICON SCHEMATIC DIAGRAM

(SCALER PCB)



FROM/TO LVDS
SDA_XGA
SCL_XGA
I2C_READY
FROM/TO SCALER
STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
HP_MUTE
DVB_FAN_ON-H
SC2_AUDIO_OUT-H
STEREO_RESET
SDA1
SCL1
AUDIO_MUTE
SCALER_RESET
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT
4SI_CHIP_SE
S_DET
SCART3_SW
SW_SCART
SCART_AUDIO_SW
INVERTER_DET
VS_ON
PDP_RLY
HP_IN
PSU_5VD/DSR
DVB
DVB_SW-H
FROM/TO ADC
SCL1
SDA1
FROM/TO REGULATOR
P.CON+3.3V
SCALER-H
P.CON+5V
AT+5V
AT+3.3V
GND
FROM/TO AV SWITCH
C_SYNC
SD_SW1
SCL1
SDA1
SYNC_HD
DVB_SW-H
YUV_SW
IC101
MICOM
OEC7137A
X101
16MHz
FROM/TO JACK
YUV_SW
HDMI/DVI
COMPONENT/HDMI
KEY-A
KEY-B
Q105
KRA103SRTK
Q101
KRC103SRTK
PC_CONTROL
CP103 A2001WV2-7F
NC
RESET
CHIP_SELECT
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT
GND
CP101
A2001WV2-5P
GND
EEPROM_SCL
EEPROM_SDA
IIC_OFF
GND
RESET IC
IC102 PST3229NR
D109
RB520S-30-TE61
ROM WRITER
MICON_DATA
CP102 A2001WV2-10P
GND
TX
BUSY
NC
VCC
CLK
RX
CNVSS
RESET
GND
Q102
2SK3018T106
Q103
2SK3018T106
IC104 AT24C256N-10SU-2.7
EEP ROM IC 256K
PCBDS0
CEE087

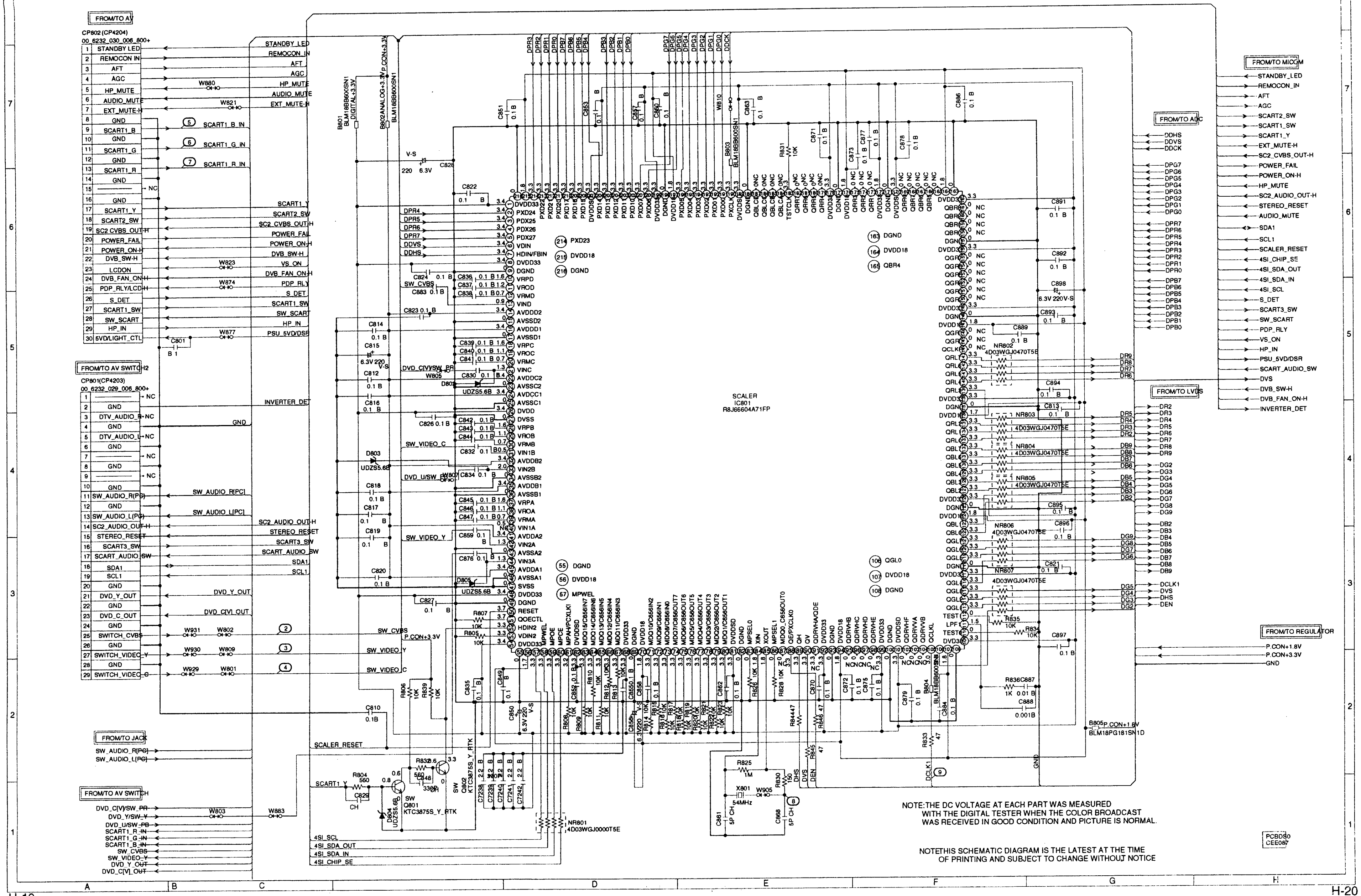
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: DIGITAL TRANSISTOR CAUTION: DIGITAL TRANSISTOR

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

SCALER SCHEMATIC DIAGRAM

(SCALER PCB)

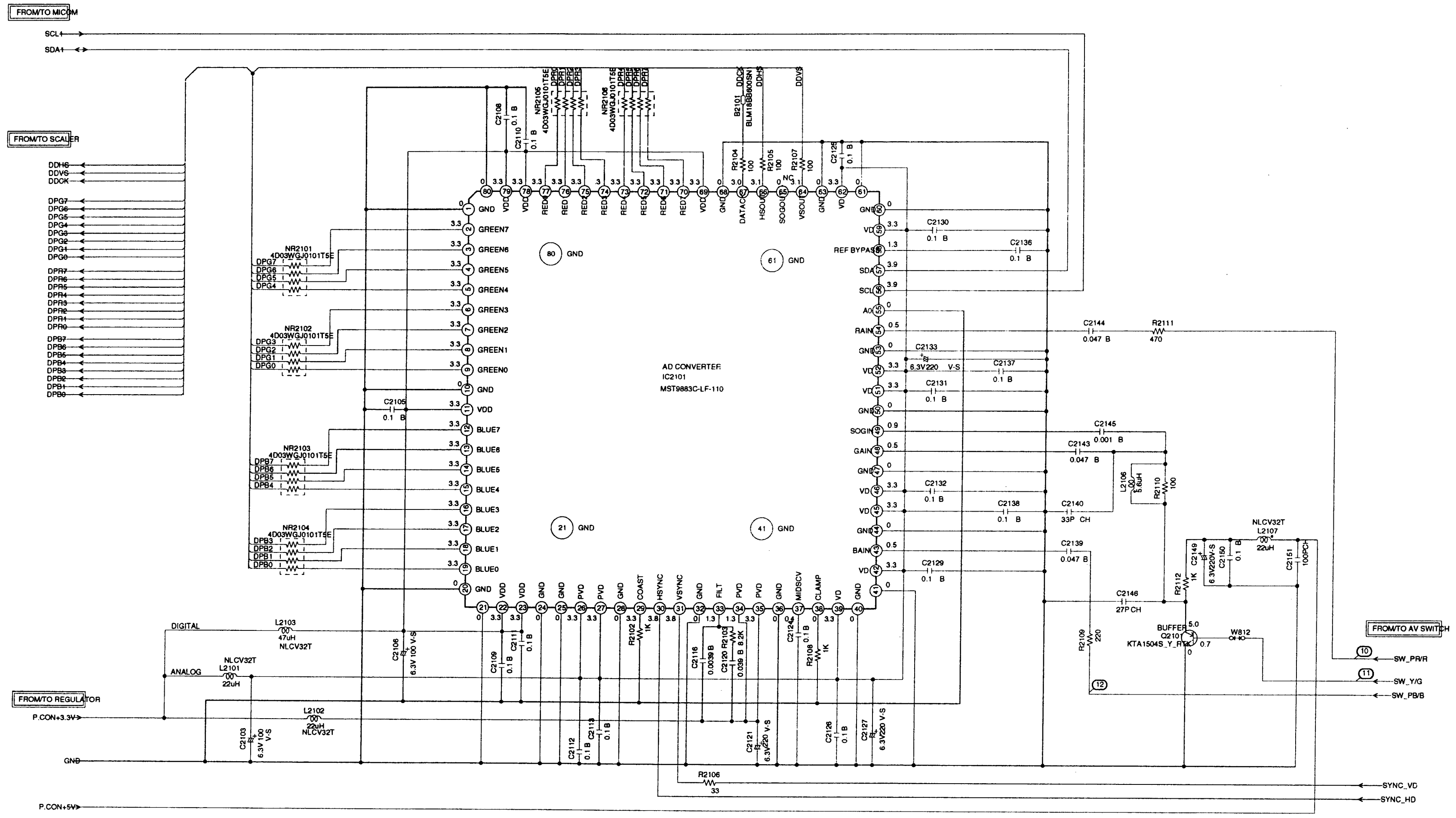

FROM/TO AV
CP802(CP4204)
00_6232_030_006_800+
1 STANDBY LED
2 REMOCON IN
3 AFT
4 AGC
5 HP_MUTE
6 AUDIO_MUTE
7 EXT_MUTE-H
8 GND
9 SCART1_B
10 GND
11 SCART1_G
12 GND
13 SCART1_R
14 GND
15 NC
16 GND
17 SCART1_Y
18 SCART2_SW
19 SC2 CVBS_OUT-H
20 POWER_FAIL
21 POWER_ON-H
22 DVB_SW-H
23 LCDON
24 DVB_FAN_ON-H
25 PDP_RLY/LCD-H
26 S_DET
27 SCART1_SW
28 SW_SCART
29 HP_IN
30 5VD/LIGHT_CTL
W880
W821
W823
W874
W877
C801
SCART1_B_IN
SCART1_G_IN
SCART1_R_IN
FROM/TO AV SWITCH2
CP801(CP4203)
00_6232_029_006_800+
1 NC
2 GND
3 DTV_AUDIO_R
4 GND
5 DTV_AUDIO_L
6 GND
7 NC
8 GND
9 NC
10 GND
11 SW_AUDIO_R(PC)
12 GND
13 SW_AUDIO_L(PC)
14 SC2_AUDIO_OUT-H
15 STEREO_RESET
16 SCART3_SW
17 SCART_AUDIO_SW
18 SDA1
19 SCL1
20 GND
21 DVD_Y_OUT
22 GND
23 DVD_C_OUT
24 GND
25 SWITCH_CVBS
26 GND
27 SWITCH_VIDEO_Y
28 GND
29 SWITCH_VIDEO_C
W931 W802
W930 W809
W929 W801
INVERTER_DET
SW_CVBS
SW_VIDEO_Y
SW_VIDEO_C
FROM/TO JACK
SW_AUDIO_R(PC)
SW_AUDIO_L(PC)
FROM/TO AV SWITCH
DVD_C(V)/SW_PR
DVD_Y/SW_Y
DVD_U/SW_PB
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
SW_CVBS
SW_VIDEO_Y
DVD_Y_OUT
DVD_C(V)_OUT
W803
W883
SCALER_RESET
SCART1_Y
4SI_SCL
4SI_SDA_OUT
4SI_SDA_IN
4SI_CHIP_SE
B801 BLM18BB600SN1 DIGITAL+3.3V
B802 ANALOG+3.3V BLM18BB600SN1
P.CON+3.3V
V-S
C826 220 6.3V
Q802 KTC3875S_Y_RTK
Q801 KTC3875S_Y_RTK
D804 UDZS5.6B
NR801 4D03WGJ0000T5E
C7238 C7239 C7240 C7241 C7242
D802 UDZS5.6B
D803 UDZS5.6B
D805 UDZS5.6B
SCALER
IC801
R8J66604A71FP
PXD23
DVDD18
DGND
QBR4
QGL0
MPWEL
X801 54MHz
W905
R825 1M
NR802 4D03WGJ0470T5E
NR803 4D03WGJ0470T5E
NR804 4D03WGJ0470T5E
NR805 4D03WGJ0470T5E
NR806 4D03WGJ0470T5E
NR807 4D03WGJ0470T5E
B803 BLM18BB600SN1
B804 BLM18BB600SN1
B805 P.CON+1.8V BLM18PG181SN1D
FROM/TO MICOM
STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
SCART1_Y
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
HP_MUTE
SC2_AUDIO_OUT-H
STEREO_RESET
AUDIO_MUTE
SDA1
SCL1
SCALER_RESET
4SI_CHIP_SE
4SI_SDA_OUT
4SI_SDA_IN
4SI_SCL
S_DET
SCART3_SW
SW_SCART
PDP_RLY
VS_ON
HP_IN
PSU_5VD/DSR
SCART_AUDIO_SW
DVS
DVB_SW-H
DVB_FAN_ON-H
INVERTER_DET
FROM/TO ADC
DDHS
DDVS
DDCK
DPG7 DPG6 DPG5 DPG4 DPG3 DPG2 DPG1 DPG0
DPR7 DPR6 DPR5 DPR4 DPR3 DPR2 DPR1 DPR0
DPB7 DPB6 DPB5 DPB4 DPB3 DPB2 DPB1 DPB0
FROM/TO LVDS
DR9 DR8 DR7 DR6 DR5 DR4 DR3 DR2
DB9 DB8 DB7 DB6 DB5 DB4 DB3 DB2
DG9 DG8 DG7 DG6 DG5 DG4 DG3 DG2
DCLK1
DVS
DHS
DEN
FROM/TO REGULATOR
P.CON+1.8V
P.CON+3.3V
GND
PCBDSO
CEE087
A B C D E F G H
8 7 6 5 4 3 2 1

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

ADC SCHEMATIC DIAGRAM

(SCALER PCB)



FROM/TO MICOM
SCL1
SDA1
FROM/TO SCALER
DDHS
DDVS
DDCK
DPG7
DPG6
DPG5
DPG4
DPG3
DPG2
DPG1
DPG0
DPR7
DPR6
DPR5
DPR4
DPR3
DPR2
DPR1
DPR0
DPB7
DPB6
DPB5
DPB4
DPB3
DPB2
DPB1
DPB0
NR2101
4D03WGJ0101T5E
NR2102
4D03WGJ0101T5E
NR2103
4D03WGJ0101T5E
NR2104
4D03WGJ0101T5E
NR2105
4D03WGJ0101T5E
NR2106
4D03WGJ0101T5E
C2108
0.1 B
C2110
0.1 B
B2101
BLM18BB600SN
R2104
100
R2105
100
R2107
100
C2125
0.1 B
NC
AD CONVERTER
IC2101
MST9883C-LF-110
GND
GREEN7
GREEN6
GREEN5
GREEN4
GREEN3
GREEN2
GREEN1
GREEN0
VDD
BLUE7
BLUE6
BLUE5
BLUE4
BLUE3
BLUE2
BLUE1
BLUE0
RED
DATACK
HSOUT
SOGOUT
VSOUT
REF BYPASS
SDA
SCL
A0
RAIN
SOGIN
GAIN
BAIN
PVD
COAST
HSYNC
VSYNC
FILT
MIDSCV
CLAMP
C2105
0.1 B
C2130
0.1 B
C2136
0.1 B
C2133
6.3V220 V-S
C2137
0.1 B
C2131
0.1 B
C2144
0.047 B
R2111
470
C2145
0.001 B
C2143
0.047 B
L2106
5.6uH
R2110
100
C2132
0.1 B
C2138
0.1 B
C2140
33P CH
C2139
0.047 B
C2129
0.1 B
NLCV32T
L2107
22uH
C2149
1K
6.3V220V-S
C2150
0.1 B
C2151
100PCH
R2112
1K
C2146
27PCH
BUFFER
Q2101
KTA1504S_Y_RTK
5.0
0.7
W812
R2109
220
FROM/TO AV SWITCH
SW_PR/R
SW_Y/G
SW_PB/B
SYNC_VD
SYNC_HD
DIGITAL
L2103
47uH
NLCV32T
ANALOG
NLCV32T
L2101
22uH
L2102
22uH
NLCV32T
FROM/TO REGULATOR
P.CON+3.3V
GND
P.CON+5V
C2103
6.3V100 V-S
C2106
6.3V 100 V-S
C2109
0.1 B
C2111
0.1 B
R2102
1K
C2116
0.0039 B
C2120
0.039 B
R2103
8.2K
C2124
0.1 B
R2108
1K
C2112
0.1 B
C2113
0.1 B
C2121
6.3V220 V-S
C2126
0.1 B
C2127
6.3V220 V-S
R2106
33

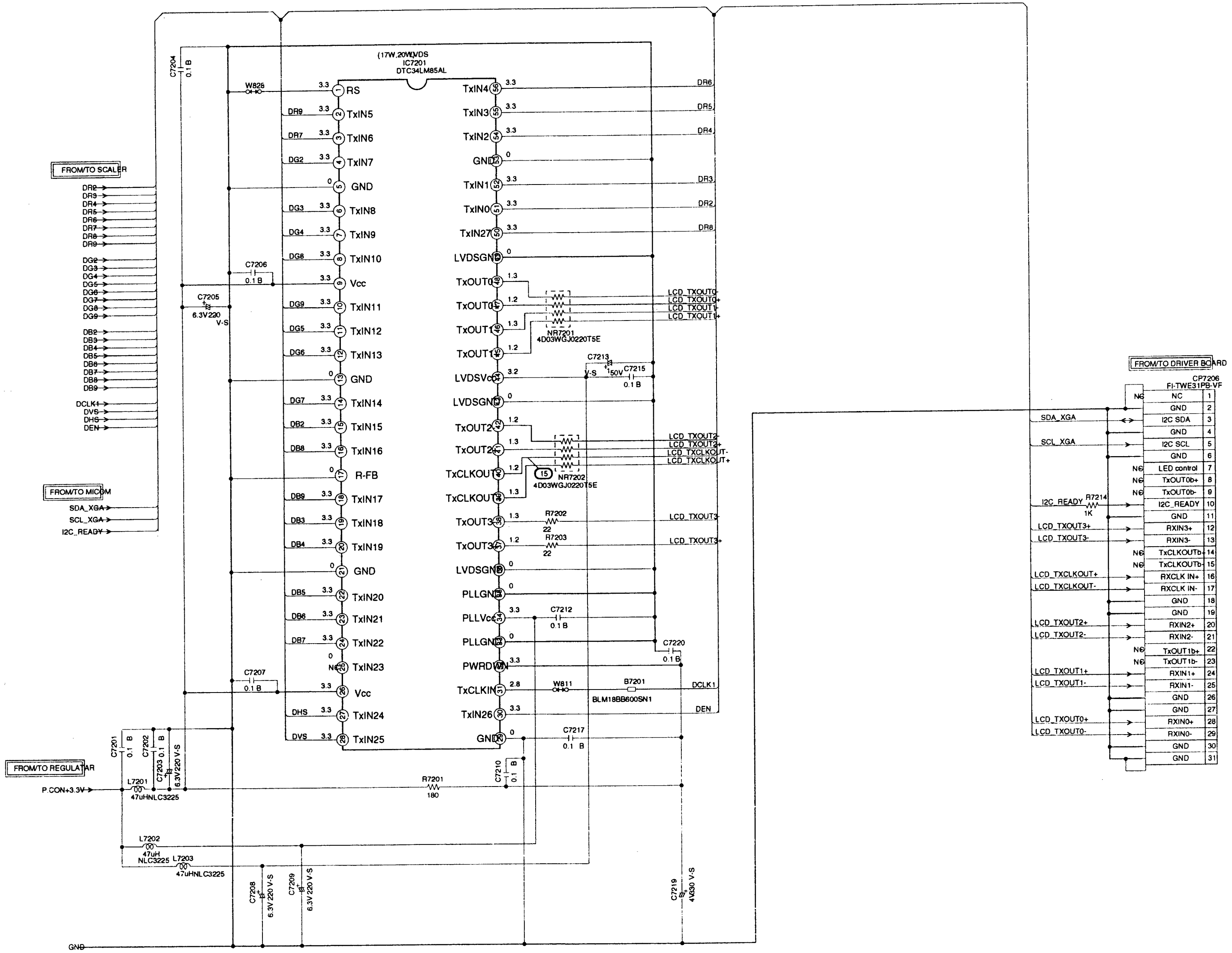
NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

PCBDS0
CEE087

LVDS SCHEMATIC DIAGRAM

(SCALER PCB)

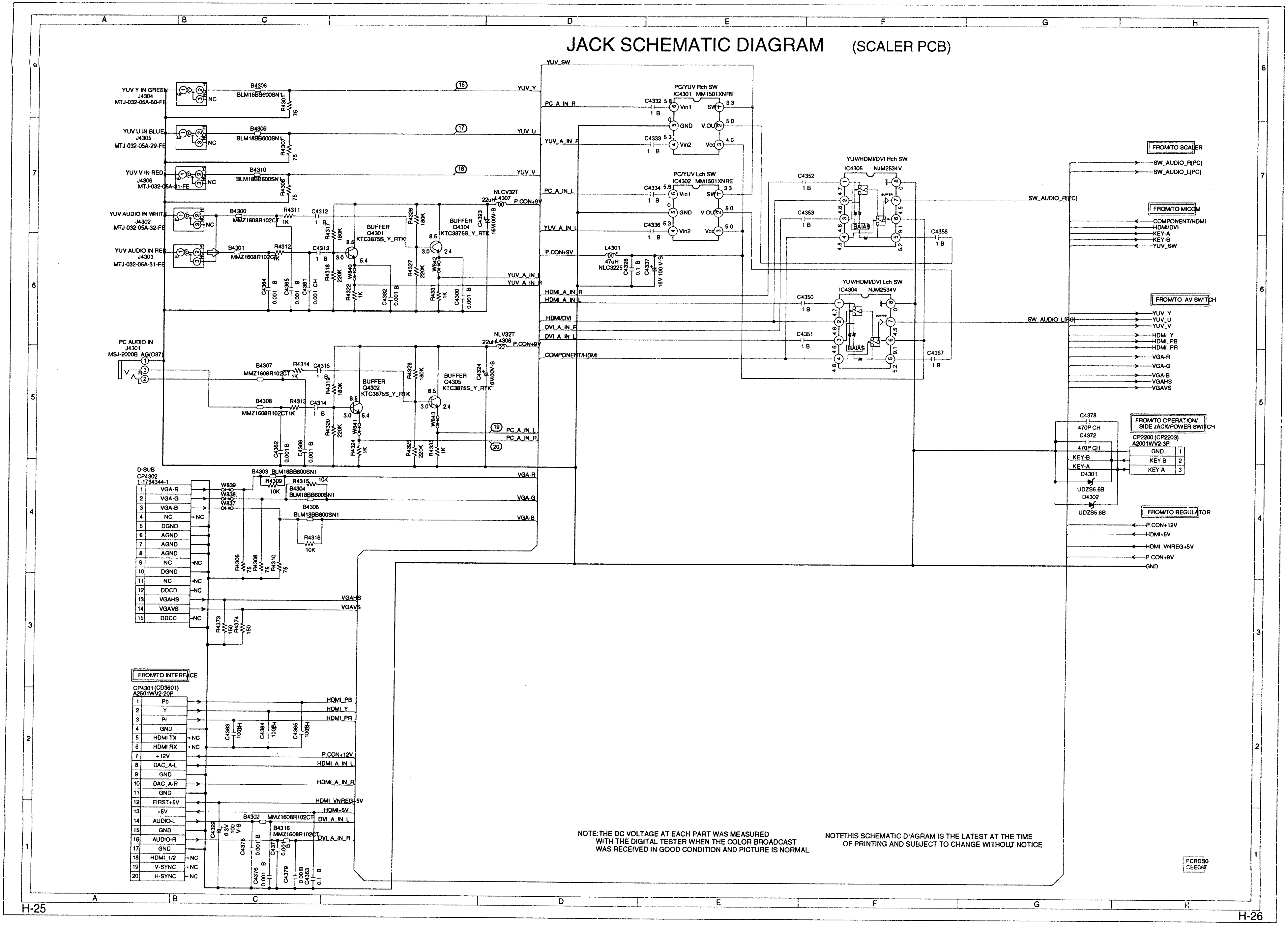

(17W,20W)LVDS
IC7201
DTC34LM85AL
RS
TxIN5
TxIN6
TxIN7
GND
TxIN8
TxIN9
TxIN10
Vcc
TxIN11
TxIN12
TxIN13
GND
TxIN14
TxIN15
TxIN16
R-FB
TxIN17
TxIN18
TxIN19
GND
TxIN20
TxIN21
TxIN22
TxIN23
Vcc
TxIN24
TxIN25
TxIN4
TxIN3
TxIN2
GND
TxIN1
TxIN0
TxIN27
LVDSGND
TxOUT0-
TxOUT0+
TxOUT1-
TxOUT1+
LVDSVcc
LVDSGND
TxOUT2-
TxOUT2+
TxCLKOUT-
TxCLKOUT+
TxOUT3-
TxOUT3+
LVDSGND
PLLGND
PLLVcc
PLLGND
PWRDWN
TxCLKIN
TxIN26
GND
FROM/TO SCALER
DR2 DR3 DR4 DR5 DR6 DR7 DR8 DR9
DG2 DG3 DG4 DG5 DG6 DG7 DG8 DG9
DB2 DB3 DB4 DB5 DB6 DB7 DB8 DB9
DCLK1 DVS DHS DEN
FROM/TO MICOM
SDA_XGA
SCL_XGA
I2C_READY
FROM/TO REGULATOR
P.CON+3.3V
GND
C7204 0.1 B
W826
C7206 0.1 B
C7205 6.3V220 V-S
C7207 0.1 B
C7201 0.1 B
C7202 0.1 B
C7203 6.3V220 V-S
L7201 47uHNLC3225
L7202 47uH NLC3225
L7203 47uHNLC3225
C7208 6.3V220 V-S
C7209 6.3V220 V-S
R7201 180
C7210 0.1 B
NR7201 4D03WGJ0220T5E
NR7202 4D03WGJ0220T5E
C7213 50V V-S
C7215 0.1 B
R7202 22
R7203 22
C7212 0.1 B
C7220 0.1 B
W811
B7201 BLM18BB600SN1
C7217 0.1 B
C7219 4V330 V-S
LCD_TXOUT0-
LCD_TXOUT0+
LCD_TXOUT1-
LCD_TXOUT1+
LCD_TXOUT2-
LCD_TXOUT2+
LCD_TXCLKOUT-
LCD_TXCLKOUT+
LCD_TXOUT3-
LCD_TXOUT3+
FROM/TO DRIVER BOARD
CP7206
FI-TWE31PB-VF
R7214 1K
NC 1
GND 2
I2C SDA 3
GND 4
I2C SCL 5
GND 6
LED control 7
TxOUT0b+ 8
TxOUT0b- 9
I2C_READY 10
GND 11
RXIN3+ 12
RXIN3- 13
TxCLKOUTb+ 14
TxCLKOUTb- 15
RXCLK IN+ 16
RXCLK IN- 17
GND 18
GND 19
RXIN2+ 20
RXIN2- 21
TxOUT1b+ 22
TxOUT1b- 23
RXIN1+ 24
RXIN1- 25
GND 26
GND 27
RXIN0+ 28
RXIN0- 29
GND 30
GND 31
NC

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

PCBDS0
CEE087

JACK SCHEMATIC DIAGRAM (SCALER PCB)

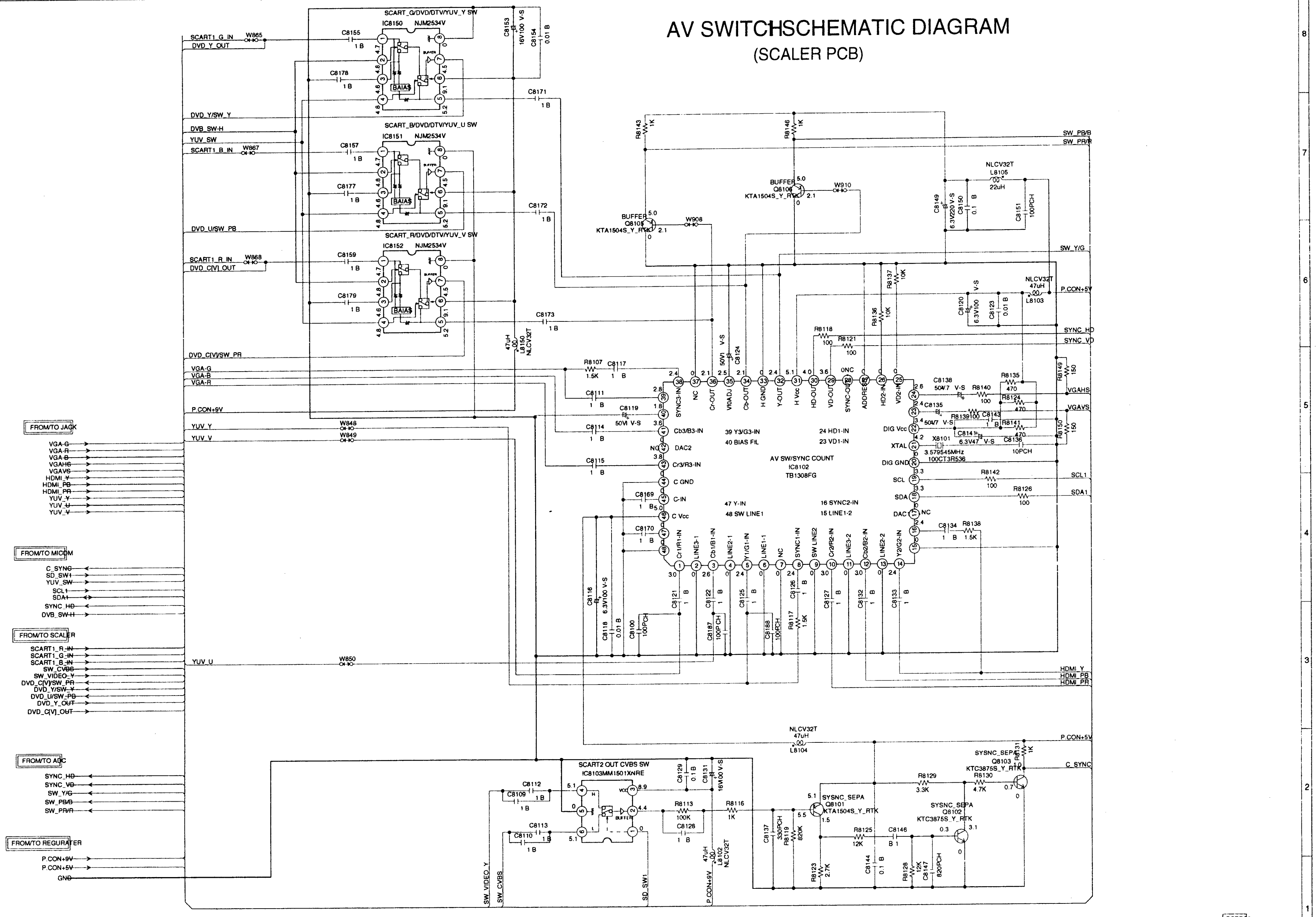

YUV Y IN GREEN
J4304
MTJ-032-05A-50-FE
YUV U IN BLUE
J4305
MTJ-032-05A-29-FE
YUV V IN RED
J4306
MTJ-032-05A-31-FE
YUV AUDIO IN WHITE
J4302
MTJ-032-05A-32-FE
YUV AUDIO IN RED
J4303
MTJ-032-05A-31-FE
PC AUDIO IN
J4301
MSJ-2000B_AG(O87)
B4306 BLM18BB600SN1
B4309 BLM18BB600SN1
B4310 BLM18BB600SN1
B4300 MMZ1608R102CT
B4301 MMZ1608R102CT
B4307 MMZ1608R102CT
B4308 MMZ1608R102CT
BUFFER Q4301 KTC3875S_Y_RTK
BUFFER Q4304 KTC3875S_Y_RTK
BUFFER Q4302 KTC3875S_Y_RTK
BUFFER Q4305 KTC3875S_Y_RTK
NLCV32T L4307 22uH
NLV32T L4306 22uH
P.CON+9V
L4301 47uH NLC3225
YUV_SW
YUV_Y
YUV_U
YUV_V
PC_A_IN_R
PC_A_IN_L
YUV_A_IN_R
YUV_A_IN_L
P.CON+9V
HDMI_A_IN_R
HDMI_A_IN_L
HDMI/DVI
DVI_A_IN_R
DVI_A_IN_L
COMPONENT/HDMI
PC/YUV Rch SW
IC4301 MM1501XNRE
PC/YUV Lch SW
IC4302 MM1501XNRE
Vin1
GND
Vin2
SW
V.OUT
Vcc
YUV/HDMI/DVI Rch SW
IC4305 NJM2534V
YUV/HDMI/DVI Lch SW
IC4304 NJM2534V
BIAS
SW_AUDIO_R[PC]
SW_AUDIO_L[PC]
FROM/TO SCALER
SW_AUDIO_R[PC]
SW_AUDIO_L[PC]
FROM/TO MICOM
COMPONENT/HDMI
HDMI/DVI
KEY-A
KEY-B
YUV_SW
FROM/TO AV SWITCH
YUV_Y
YUV_U
YUV_V
HDMI_Y
HDMI_PB
HDMI_PR
VGA-R
VGA-G
VGA-B
VGAHS
VGAVS
FROM/TO OPERATION/ SIDE JACK/POWER SWITCH
CP2200 (CP2203)
A2001WV2-3P
1 GND
2 KEY B
3 KEY A
C4378 470P CH
C4372 470P CH
D4301 UDZS5.6B
D4302 UDZS5.6B
FROM/TO REGULATOR
P.CON+12V
HDMI+5V
HDMI_VNREG+5V
P.CON+9V
GND
D-SUB
CP4302
1-1734344-1
1 VGA-R
2 VGA-G
3 VGA-B
4 NC
5 DGND
6 AGND
7 AGND
8 AGND
9 NC
10 DGND
11 NC
12 DDCD
13 VGAHS
14 VGAVS
15 DDCC
B4303 BLM18BB600SN1
B4304 BLM18BB600SN1
B4305 BLM18BB600SN1
R4309 10K
R4315 10K
R4316 10K
W839
W838
W837
VGA-R
VGA-G
VGA-B
VGAHS
VGAVS
FROM/TO INTERFACE
CP4301(CD3601)
A2501WV2-20P
1 Pb
2 Y
3 Pr
4 GND
5 HDMI TX
6 HDMI RX
7 +12V
8 DAC_A-L
9 GND
10 DAC_A-R
11 GND
12 FIRST+5V
13 +5V
14 AUDIO-L
15 GND
16 AUDIO-R
17 GND
18 HDMI_1/2
19 V-SYNC
20 H-SYNC
HDMI_PB
HDMI_Y
HDMI_PR
P.CON+12V
HDMI_A_IN_L
HDMI_A_IN_R
HDMI_VNREG+5V
HDMI+5V
DVI_A_IN_L
DVI_A_IN_R
B4302 MMZ1608R102CT
B4316 MMZ1608R102CT
FCBD50
CEE087

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

AV SWITCHSCHEMATIC DIAGRAM

(SCALER PCB)



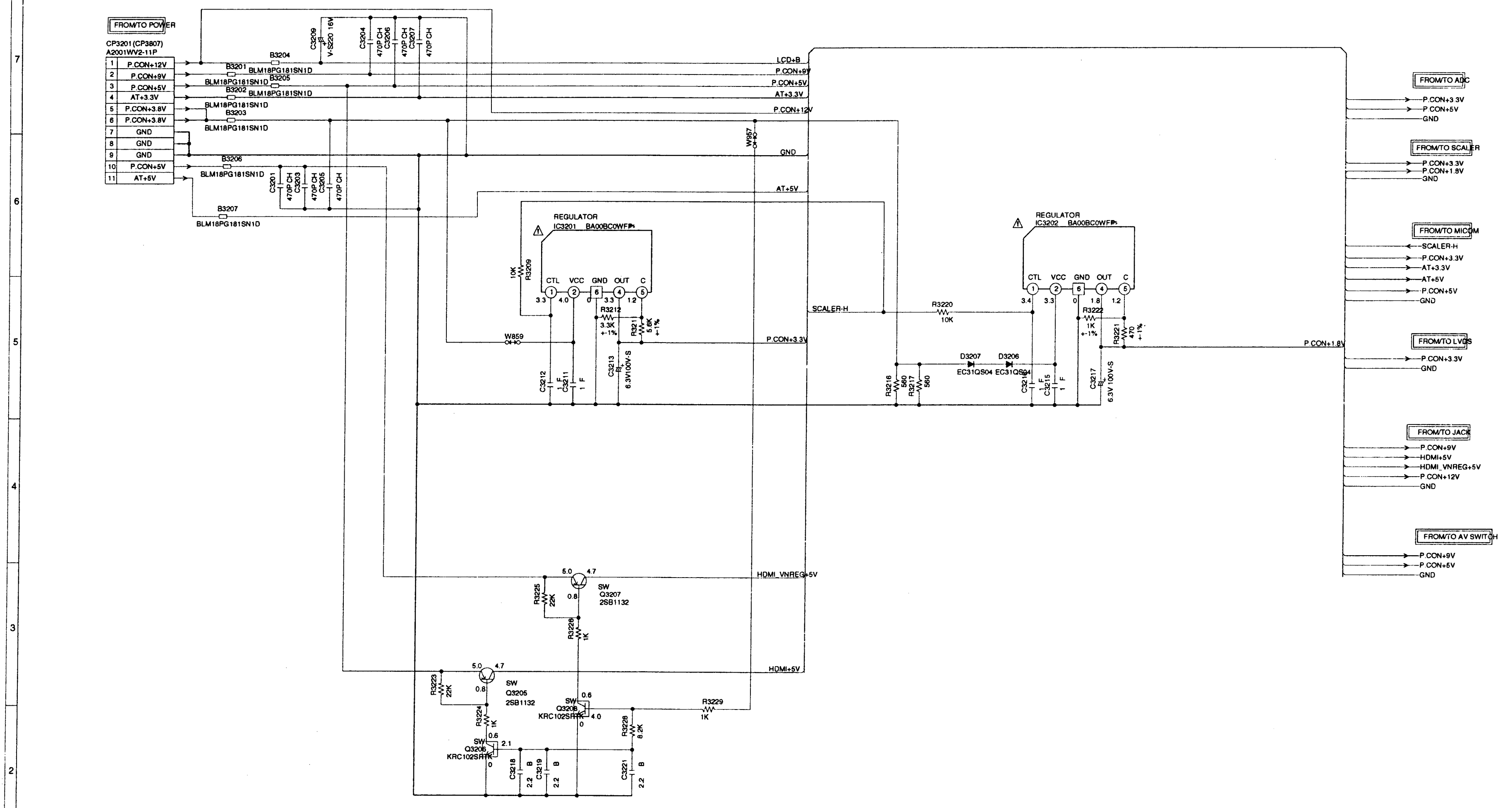
SCART_G/DVD/DTV/YUV_Y SW
IC8150 NJM2534V
SCART_B/DVD/DTV/YUV_U SW
IC8151 NJM2534V
SCART_R/DVD/DTV/YUV_V SW
IC8152 NJM2534V
BAIAS
BUFFER
SCART1_G_IN
DVD_Y_OUT
DVD_Y/SW_Y
DVB_SW-H
YUV_SW
SCART1_B_IN
DVD_U/SW_PB
SCART1_R_IN
DVD_C(V)_OUT
DVD_C(V)/SW_PR
VGA-G
VGA-B
VGA-R
P.CON+9V
YUV_Y
YUV_V
YUV_U
W865
W867
W868
W848
W849
W850
W908
W910
C8155
C8178
C8157
C8177
C8159
C8179
C8153 16V100 V-S
C8154 0.01 B
C8171
C8172
C8173
L8150 NLCV32T 47uH
FROM/TO JACK
VGA-G
VGA-R
VGA-B
VGAHS
VGAVS
HDMI_Y
HDMI_PB
HDMI_PR
YUV_Y
YUV_U
YUV_V
FROM/TO MICOM
C_SYNC
SD_SW1
YUV_SW
SCL1
SDA1
SYNC_HD
DVB_SW-H
FROM/TO SCALER
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
SW_CVBS
SW_VIDEO_Y
DVD_C(V)/SW_PR
DVD_Y/SW_Y
DVD_U/SW_PB
DVD_Y_OUT
DVD_C(V)_OUT
FROM/TO ADC
SYNC_HD
SYNC_VD
SW_Y/G
SW_PB/B
SW_PR/R
FROM/TO REGURATER
P.CON+9V
P.CON+5V
GND
BUFFER Q8106 KTA1504S_Y_RTK
BUFFER Q8105 KTA1504S_Y_RTK
R8143 1K
R8146 1K
SW_PB/B
SW_PR/R
NLCV32T L8105 22uH
C8149 6.3V220 V-S
C8150 0.1 B
C8151 100PCH
SW_Y/G
NLCV32T 47uH L8103
C8120 6.3V100 V-S
C8123 0.01 B
P.CON+5V
SYNC_HD
SYNC_VD
R8137 10K
R8136 10K
R8118 100
R8121 100
R8107 1.5K
C8117 1 B
C8124 50V1 V-S
C8111 1 B
C8119 50V1 V-S
C8114 1 B
C8115 1 B
C8169 1 B
C8170 1 B
C8138 50V7 V-S
R8140 100
R8135 470
R8124 470
C8135 50V7 V-S
R8139 100
C8143 1 B
R8141 470
C8141 6.3V47 V-S
C8136 10PCH
X8101 3.579545MHz 100CT3R536
R8142 100
R8126 100
C8134 1 B
R8138 1.5K
R8149 150
R8150 150
VGAHS
VGAVS
SCL1
SDA1
SYNC3-IN
NC
Cr-OUT
Y/ADJ
Cb-OUT
H GND
Y-OUT
H Vcc
HD-OUT
VD-OUT
SYNC-OUT
ADDRESS
HD2-IN
VD2-IN
Cb3/B3-IN
DAC2
Cr3/R3-IN
C GND
C-IN
C Vcc
Cr1/R1-IN
39 Y3/G3-IN
40 BIAS FIL
24 HD1-IN
23 VD1-IN
AV SW/SYNC COUNT
IC8102
TB1308FG
47 Y-IN
48 SW LINE1
16 SYNC2-IN
15 LINE1-2
DIG Vcc
XTAL
DIG GND
SCL
SDA
DAC
NC
LINE3-1
Cb1/B1-IN
LINE2-1
Y1/G1-IN
LINE1-1
SYNC1-IN
SW LINE2
Cr2/R2-IN
LINE3-2
Cb2/B2-IN
LINE2-2
Y2/G2-IN
C8116 6.3V100 V-S
C8118 0.01 B
C8100 100PCH
C8121 1 B
C8122 1 B
C8187 100PCH
C8125 1 B
C8188 100PCH
C8126 1 B
R8117 1.5K
C8127 1 B
C8132 1 B
C8133 1 B
HDMI_Y
HDMI_PB
HDMI_PR
NLCV32T 47uH L8104
P.CON+5V
SYSNC_SEPA Q8103 KTC3875S_Y_RTK
R8131 1K
C_SYNC
R8129 3.3K
R8130 4.7K
SYSNC_SEPA Q8101 KTA1504S_Y_RTK
SYSNC_SEPA Q8102 KTC3875S_Y_RTK
R8125 12K
C8146 B 1
C8144 0.1 B
R8128 12K
C8147 820PCH
R8123 2.7K
R8119 820K
C8137 330PCH
R8116 1K
SCART2 OUT CVBS SW
IC8103MM1501XNRE
C8129 0.1 B
C8131 16V100 V-S
C8112
C8109 1 B
C8113
C8110 1 B
R8113 100K
C8128 1 B
L8102 NLCV32T 47uH
SW_VIDEO_Y
SW_CVBS
SD_SW1
P.CON+9V
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
PCBD90
CEE067

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

REGULATOR SCHEMATIC DIAGRAM

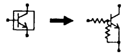
(SCALER PCB)


FROM/TO POWER
CP3201 (CP3807)
A2001WV2-11P
1 P.CON+12V
2 P.CON+9V
3 P.CON+5V
4 AT+3.3V
5 P.CON+3.8V
6 P.CON+3.8V
7 GND
8 GND
9 GND
10 P.CON+5V
11 AT+5V
B3201 BLM18PG181SN1D
B3202 BLM18PG181SN1D
B3203 BLM18PG181SN1D
B3204 BLM18PG181SN1D
B3205 BLM18PG181SN1D
B3206 BLM18PG181SN1D
B3207 BLM18PG181SN1D
C3209 V-S220 16V
C3204 470P CH
C3206 470P CH
C3207 470P CH
C3201 470P CH
C3203 470P CH
C3205 470P CH
LCD+B
P.CON+9V
P.CON+5V
AT+3.3V
P.CON+12V
W957
GND
AT+5V
REGULATOR
IC3201 BA00BC0WFP
CTL VCC GND OUT C
1 2 6 4 5
3.3 4.0 0 3.3 1.2
R3209 10K
R3212 3.3K +-1%
R3211 5.6K +-1%
W859
C3212 1 F
C3211 1 F
C3213 6.3V100V-S
SCALER-H
P.CON+3.3V
R3220 10K
REGULATOR
IC3202 BA00BC0WFP
CTL VCC GND OUT C
1 2 6 4 5
3.4 3.3 0 1.8 1.2
R3222 1K +-1%
R3221 470 +-1%
D3207 EC31QS04
D3206 EC31QS04
R3216 560
R3217 560
C3214 1 F
C3215 1 F
C3217 6.3V 100V-S
P.CON+1.8V
FROM/TO ADC
P.CON+3.3V
P.CON+5V
GND
FROM/TO SCALER
P.CON+3.3V
P.CON+1.8V
GND
FROM/TO MICOM
SCALER-H
P.CON+3.3V
AT+3.3V
AT+5V
P.CON+5V
GND
FROM/TO LVDS
P.CON+3.3V
GND
FROM/TO JACK
P.CON+9V
HDMI+5V
HDMI_VNREG+5V
P.CON+12V
GND
FROM/TO AV SWITCH
P.CON+9V
P.CON+5V
GND
HDMI_VNREG+5V
5.0 4.7
SW Q3207 2SB1132
0.8
R3225 22K
R3226 1K
HDMI+5V
5.0 4.7
SW Q3205 2SB1132
0.8
R3223 22K
R3224 1K
SW Q3208 KRC102SRTK
0.6 4.0 0
R3229 1K
R3228 8.2K
SW Q3206 KRC102SRTK
0.6 2.1 0
C3218 B 2.2
C3219 B 2.2
C3221 B 2.2

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

CAUTION: DIGITAL TRANSISTOR



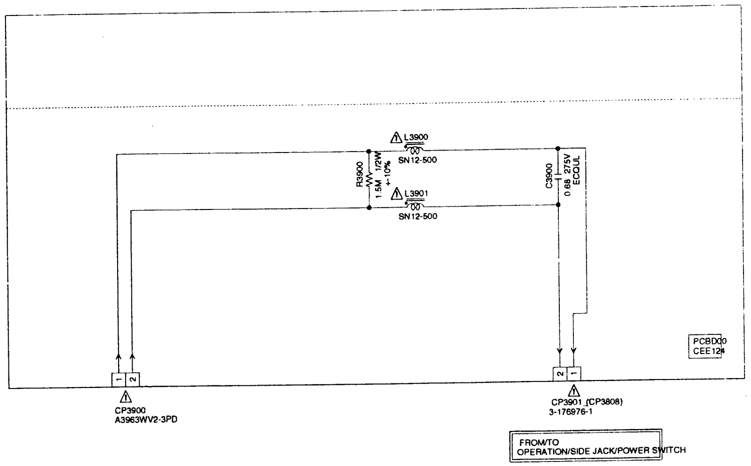
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

PCBDS0
CEE087

POWER FILTER SCHEMATIC DIAGRAM

(FILTER PCB)


⚠ L3900
SN12-500
R3900
1.5M 1/2W
+-10%
⚠ L3901
SN12-500
C3900
0.68 275V
ECQUL
1
2
⚠
CP3900
A3963WV2-3PD
2
1
⚠
CP3901 (CP3808)
3-176976-1
PCBD00
CEE124
FROM/TO
OPERATION/SIDE JACK/POWER SWITCH

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

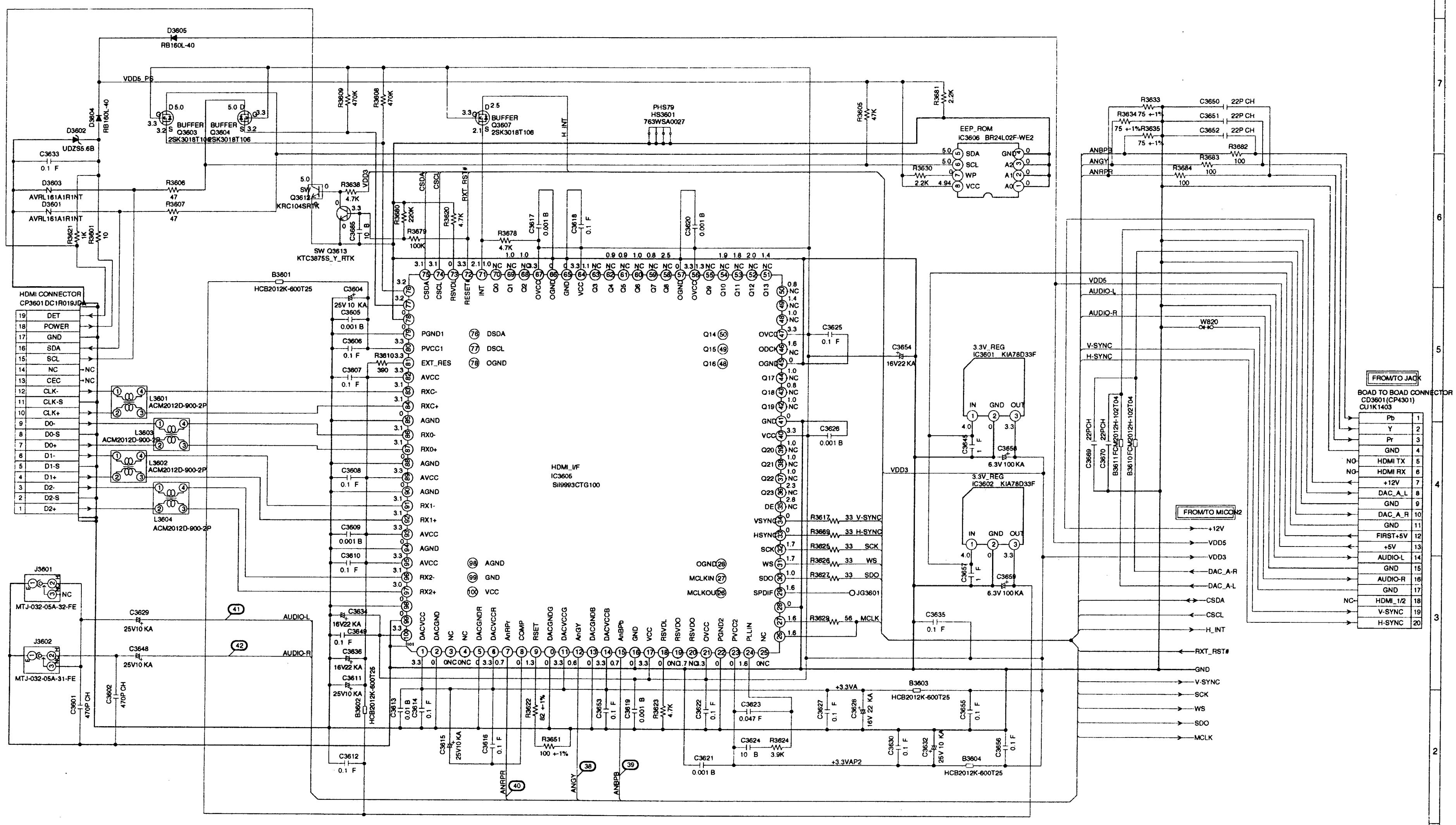
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

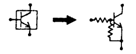
INTERFACE SCHEMATIC DIAGRAM

(HD-MI PCB)



D3605 RB160L-40
VDD5_PS
D3604 RB160L-40
D3602 UDZS5.6B
C3633 0.1 F
D3603 AVRL161A1R1NT
D3601 AVRL161A1R1NT
R3606 47
R3607 47
R3621 1K
R3601 10
BUFFER Q3603 2SK3018T106
BUFFER Q3604 2SK3018T106
R3609 470K
R3608 470K
BUFFER Q3607 2SK3018T106
H_INT
PHS79 HS3601 763WSA0027
R3605 47K
R3681 2.2K
EEP_ROM IC3606 BR24L02F-WE2
SDA
SCL
WP
VCC
GND
A2
A1
A0
R3630 2.2K
SW Q3612 KRC104SRTK
R3638 4.7K
VDD3
SW Q3613 KTC3875S_Y_RTK
C3685 10 B
R3680 220K
R3679 100K
CSDA
CSCL
RXT_RST#
R3620 4.7K
R3678 4.7K
C3617 0.001 B
C3618 0.1 F
C3620 0.001 B
B3601 HCB2012K-600T25
HDMI CONNECTOR CP3601 DC1R019JDA
19 DET
18 POWER
17 GND
16 SDA
15 SCL
14 NC
13 CEC
12 CLK-
11 CLK-S
10 CLK+
9 D0-
8 D0-S
7 D0+
6 D1-
5 D1-S
4 D1+
3 D2-
2 D2-S
1 D2+
L3601 ACM2012D-900-2P
L3603 ACM2012D-900-2P
L3602 ACM2012D-900-2P
L3604 ACM2012D-900-2P
C3604 25V 10 KA
C3605 0.001 B
C3606 0.1 F
C3607 0.1 F
R3610 390
C3608 0.1 F
C3609 0.001 B
C3610 0.1 F
HDMI_I/F IC3605 Sil9993CTG100
PGND1
PVCC1
EXT_RES
AVCC
RXC-
RXC+
AGND
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
DSDA
DSCL
OGND
GND
VCC
Q14
Q15
Q16
OVCC
ODCK
Q17
Q18
Q19
Q20
Q21
Q22
Q23
DE
VSYNC
HSYNC
SCK
WS
SDO
SPDIF
MCLKIN
MCLKOUT
C3625 0.1 F
C3626 0.001 B
C3654 16V22 KA
R3617 33 V-SYNC
R3669 33 H-SYNC
R3625 33 SCK
R3626 33 WS
R3627 33 SDO
JG3601
R3629 56 MCLK
C3635 0.1 F
3.3V_REG IC3601 KIA78D33F
3.3V_REG IC3602 KIA78D33F
IN GND OUT
C3658 6.3V 100 KA
C3659 6.3V 100 KA
VDD3
J3601 MTJ-032-05A-32-FE
J3602 MTJ-032-05A-31-FE
C3629 25V10 KA
C3648 25V10 KA
AUDIO-L
AUDIO-R
C3601 470P CH
C3602 470P CH
C3634 16V22 KA
C3649 0.1 F
C3636 16V22 KA
C3611 25V10 KA
B3602 HCB2012K-600T25
C3612 0.1 F
C3613 0.01 B
C3614 0.1 F
DACVCC
DACGND
DACGNDR
DACVCCR
AnRPr
COMP
RSET
DACGNDG
DACVCCG
AnGY
DACGNDB
DACVCCB
AnBPb
RSVDL
RSVDO
PGND2
PVCC2
PLLIN
C3615 25V10 KA
C3616 0.1 F
R3622 82 +-1%
R3651 100 +-1%
C3653 0.1 F
C3619 0.001 B
R3623 4.7K
C3622 0.1 F
C3623 0.047 F
C3624 10 B
R3624 3.9K
C3621 0.001 B
+3.3VA
+3.3VAP2
B3603 HCB2012K-600T25
B3604 HCB2012K-600T25
C3627 0.1 F
C3628 16V 22 KA
C3630 0.1 F
C3632 25V 10 KA
C3655 0.1 F
C3656 0.1 F
ANRPR
ANGY
ANBPB
R3633
R3634 75 +-1%
R3635 75 +-1%
C3650 22P CH
C3651 22P CH
C3652 22P CH
R3682 100
R3683 100
R3684 100
VDD5
AUDIO-L
AUDIO-R
W820
V-SYNC
H-SYNC
C3669 22PCH
C3670 22PCH
B3611 FCM2012H-102T04
B3610 FCM2012H-102T04
FROM/TO JACK
BOAD TO BOAD CONNECTOR CD3601(CP4301) CU1K1403
1 Pb
2 Y
3 Pr
4 GND
5 HDMI TX
6 HDMI RX
7 +12V
8 DAC_A_L
9 GND
10 DAC_A_R
11 GND
12 FIRST+5V
13 +5V
14 AUDIO-L
15 GND
16 AUDIO-R
17 GND
18 HDMI_1/2
19 V-SYNC
20 H-SYNC
FROM/TO MICOM2
+12V
VDD5
VDD3
DAC_A-R
DAC_A-L
CSDA
CSCL
H_INT
RXT_RST#
GND
V-SYNC
SCK
WS
SDO
MCLK

CAUTION: DIGITAL TRANSISTOR



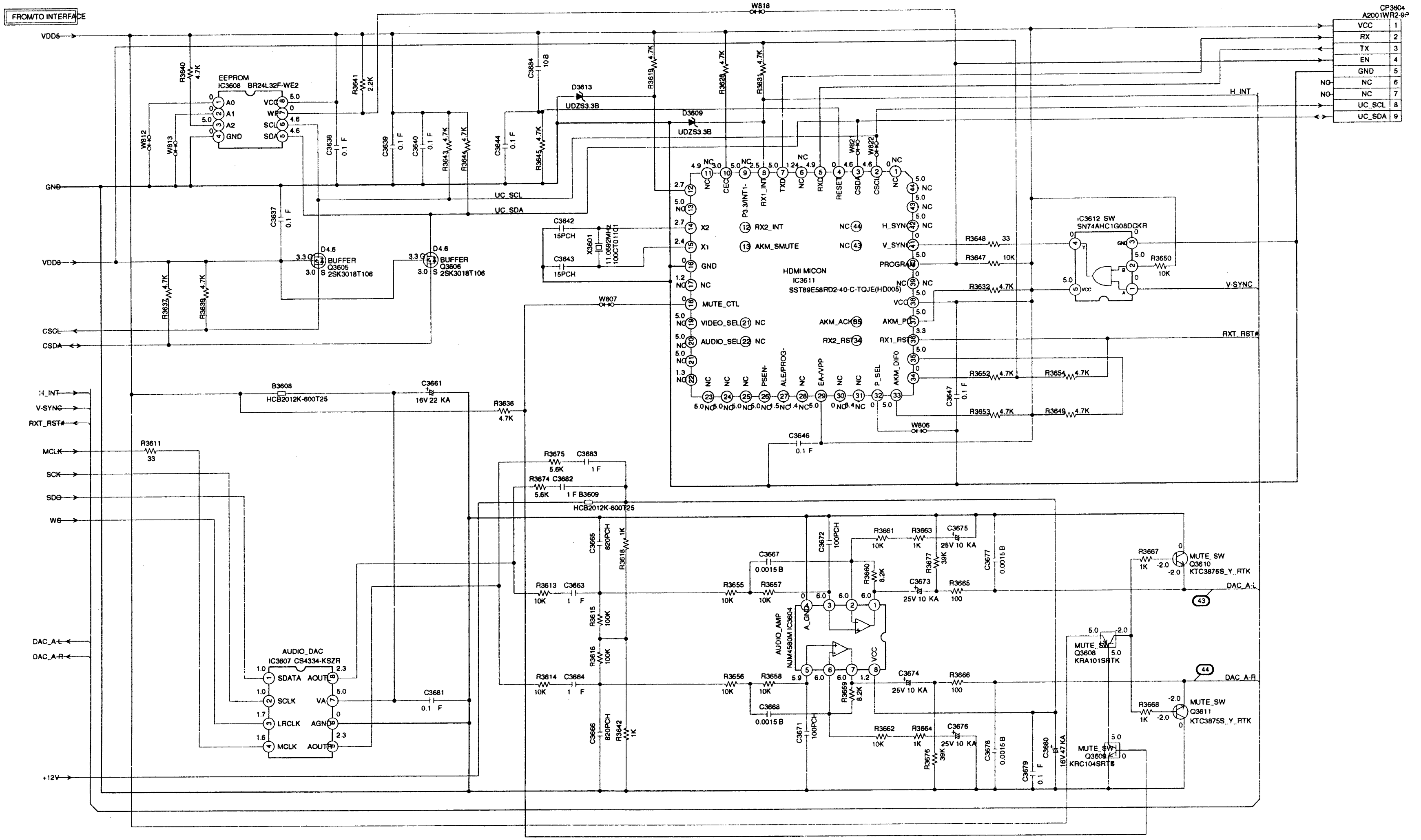
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDJ0
CED011

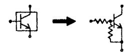
MICON2 SCHEMATIC DIAGRAM

(HD-MI PCB)

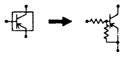


FROM/TO INTERFACE
VDD5
GND
VDD3
CSCL
CSDA
H_INT
V-SYNC
RXT_RST#
MCLK
SCK
SDO
WS
DAC_A-L
DAC_A-R
+12V
EEPROM
IC3608 BR24L32F-WE2
A0
A1
A2
GND
VCC
WP
SCL
SDA
R3640 4.7K
R3641 2.2K
W812
W813
C3638 0.1 F
C3639 0.1 F
C3640 0.1 F
R3643 4.7K
R3644 4.7K
C3644 0.1 F
C3684 10 B
R3645 4.7K
D3613 UDZS3.3B
D3609 UDZS3.3B
W818
R3619 4.7K
R3628 4.7K
R3631 4.7K
W821
W822
UC_SCL
UC_SDA
C3637 0.1 F
BUFFER Q3605 2SK3018T106
BUFFER Q3606 2SK3018T106
R3637 4.7K
R3639 4.7K
C3642 15PCH
C3643 15PCH
X3601 11.0592MHz 100CT011E1
W807
HDMI MICON
IC3611
SST89E58RD2-40-C-TQJE(HD005)
NC
CE
P3.3/INT1-
RX1_INT
TXD
RXD
RESET
CSDA
CSCL
X2
X1
GND
MUTE_CTL
VIDEO_SEL
AUDIO_SEL
RX2_INT
AKM_SMUTE
H_SYNC
V_SYNC
PROGRAM
VCC
AKM_P
AKM_ACK
RX2_RST
RX1_RST
PSEN-
ALE/PROG-
EA-/VPP
P_SEL
AKM_DIF0
C3647 0.1 F
C3646 0.1 F
W806
R3648 33
R3647 10K
R3632 4.7K
R3652 4.7K
R3654 4.7K
R3653 4.7K
R3649 4.7K
IC3612 SW
SN74AHC1G08DCKR
R3650 10K
V-SYNC
RXT_RST#
CP3604
A2001WR2-9P
VCC
RX
TX
EN
GND
NC
UC_SCL
UC_SDA
H_INT
B3608 HCB2012K-600T25
C3661 16V 22 KA
R3636 4.7K
R3611 33
R3675 5.6K
C3683 1 F
R3674 5.6K
C3682 1 F
B3609 HCB2012K-600T25
C3665 820PCH
R3618 1K
R3613 10K
C3663 1 F
R3615 100K
R3616 100K
R3614 10K
C3664 1 F
C3666 820PCH
R3642 1K
AUDIO_DAC
IC3607 CS4334-KSZR
SDATA
SCLK
LRCLK
MCLK
AOUTL
VA
AGND
AOUTR
C3681 0.1 F
R3655 10K
R3657 10K
C3667 0.0015 B
C3672 100PCH
R3661 10K
R3663 1K
C3675 25V 10 KA
R3677 39K
R3660 8.2K
C3677 0.0015 B
C3673 25V 10 KA
R3665 100
AUDIO_AMP
NJM4580M IC3604
A_GND
VCC
R3656 10K
R3658 10K
C3668 0.0015 B
R3659 8.2K
C3674 25V 10 KA
R3666 100
C3671 100PCH
R3662 10K
R3664 1K
C3676 25V 10 KA
R3676 39K
C3678 0.0015 B
C3679 0.1 F
C3680 16V 47 KA
R3667 1K
MUTE_SW
Q3610
KTC3875S_Y_RTK
DAC_A-L
43
MUTE_SW
Q3608
KRA101SRTK
44
DAC_A-R
R3668 1K
MUTE_SW
Q3611
KTC3875S_Y_RTK
MUTE_SW
Q3609
KRC104SRTK

CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



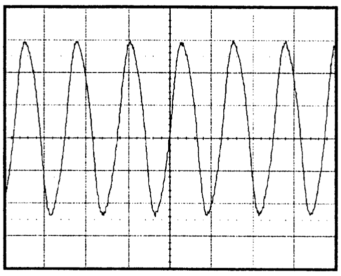
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDJ0
CED011

WAVEFORMS

MICON



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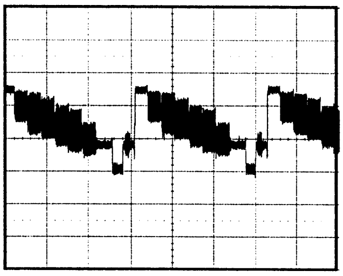
SCALER



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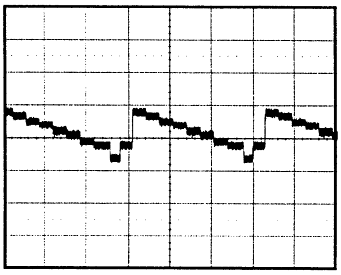

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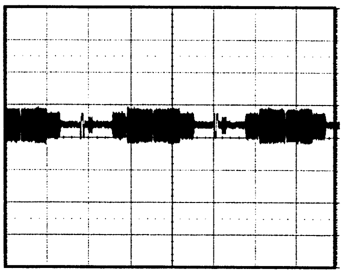

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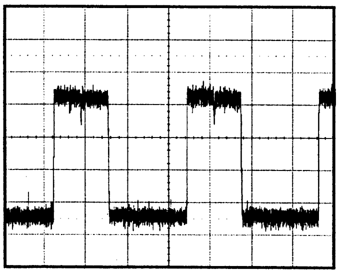

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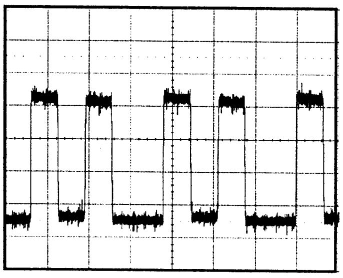

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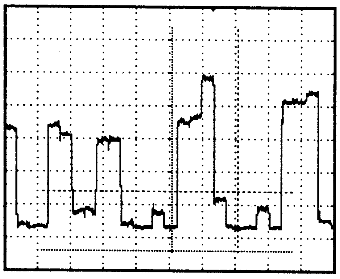

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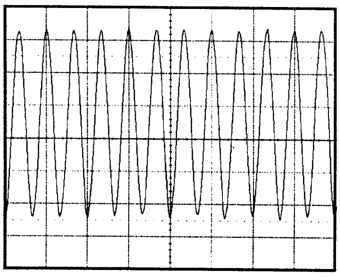

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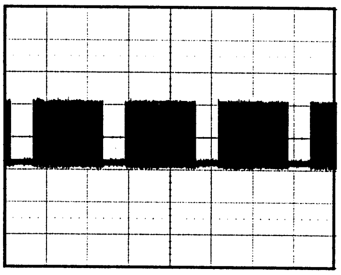

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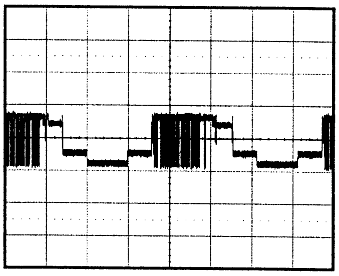
ADC



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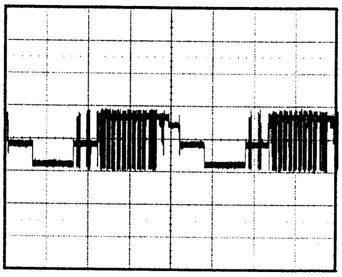

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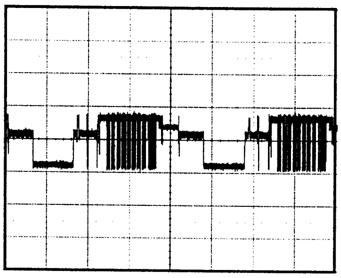

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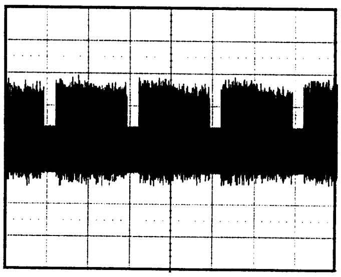
LVDS



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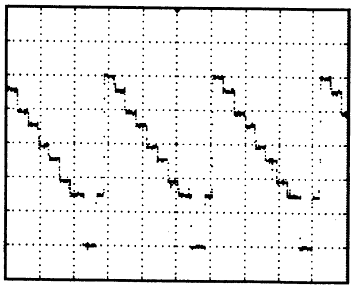
JACK



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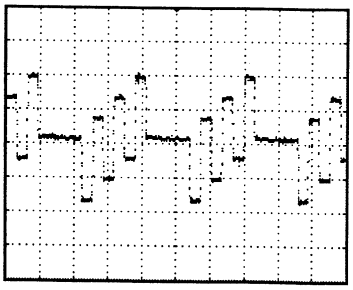
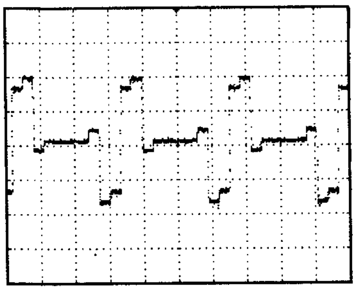


⑰

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

⑱



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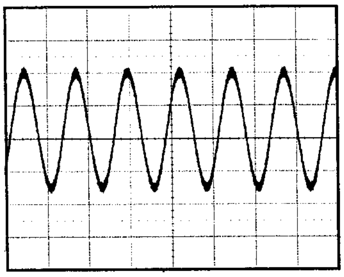

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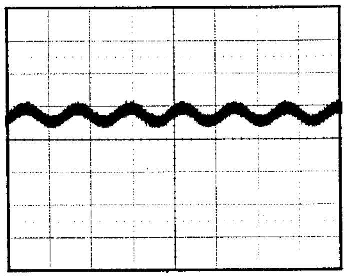

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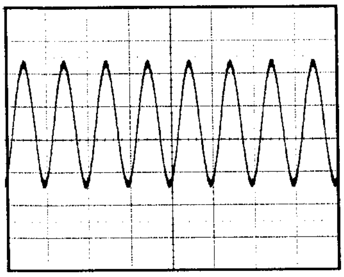

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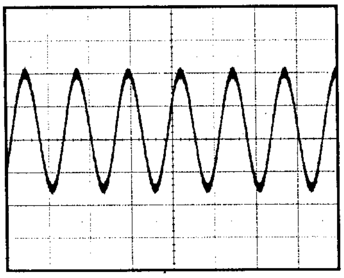

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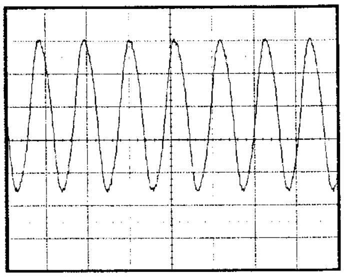

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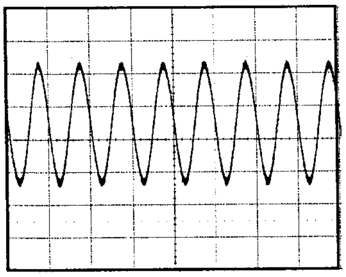

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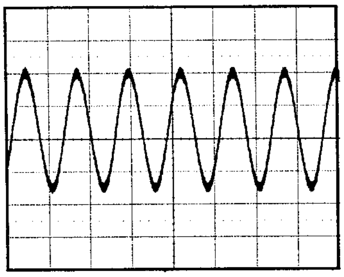

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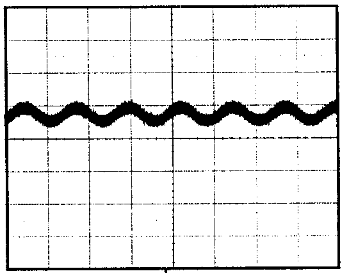
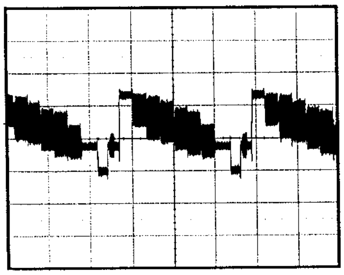


21PIN (SCART3)

㉓



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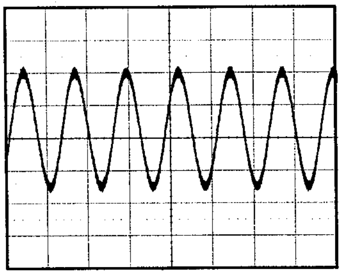

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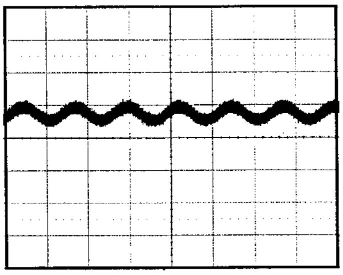

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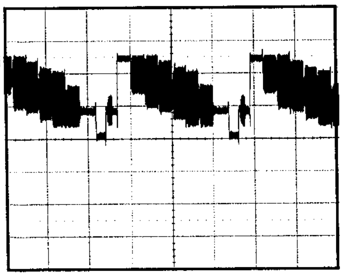
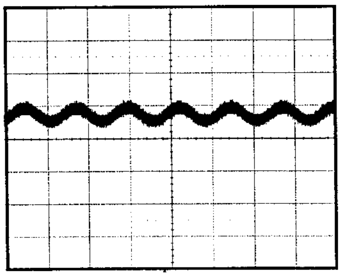


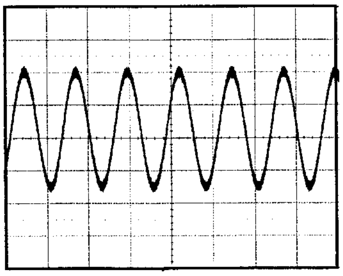
STEREO

㉙



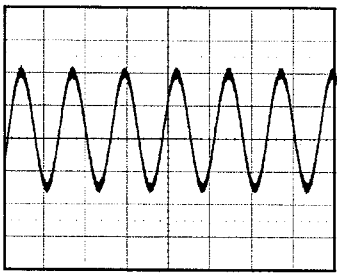
21PIN(SCART3)

㉞



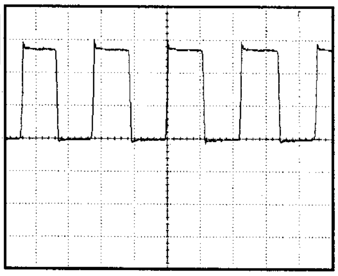
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS



㉟

SOUND AMP



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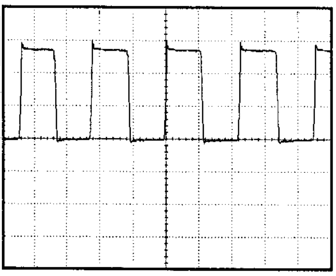
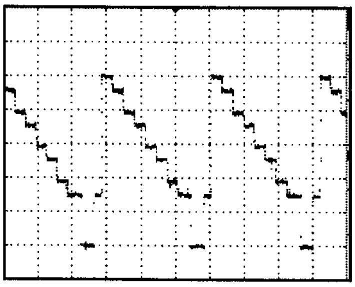


㊲

INTERFACE



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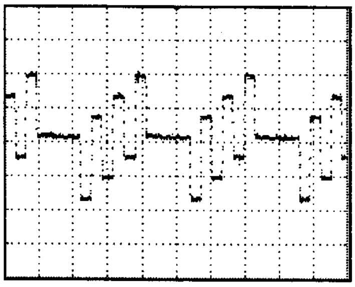

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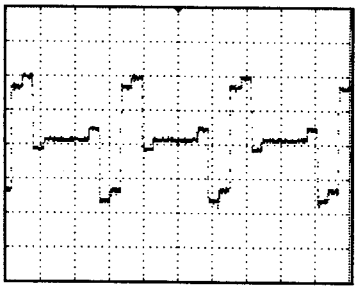

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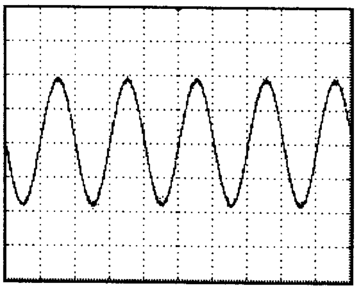

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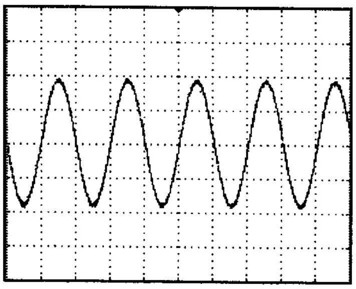
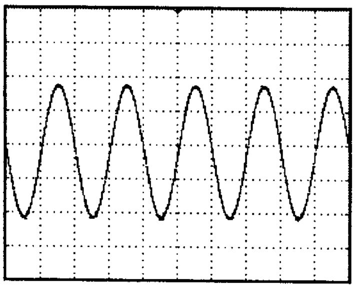


㊷

MICON2



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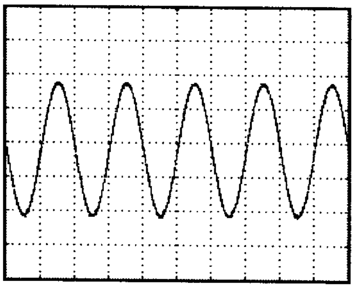
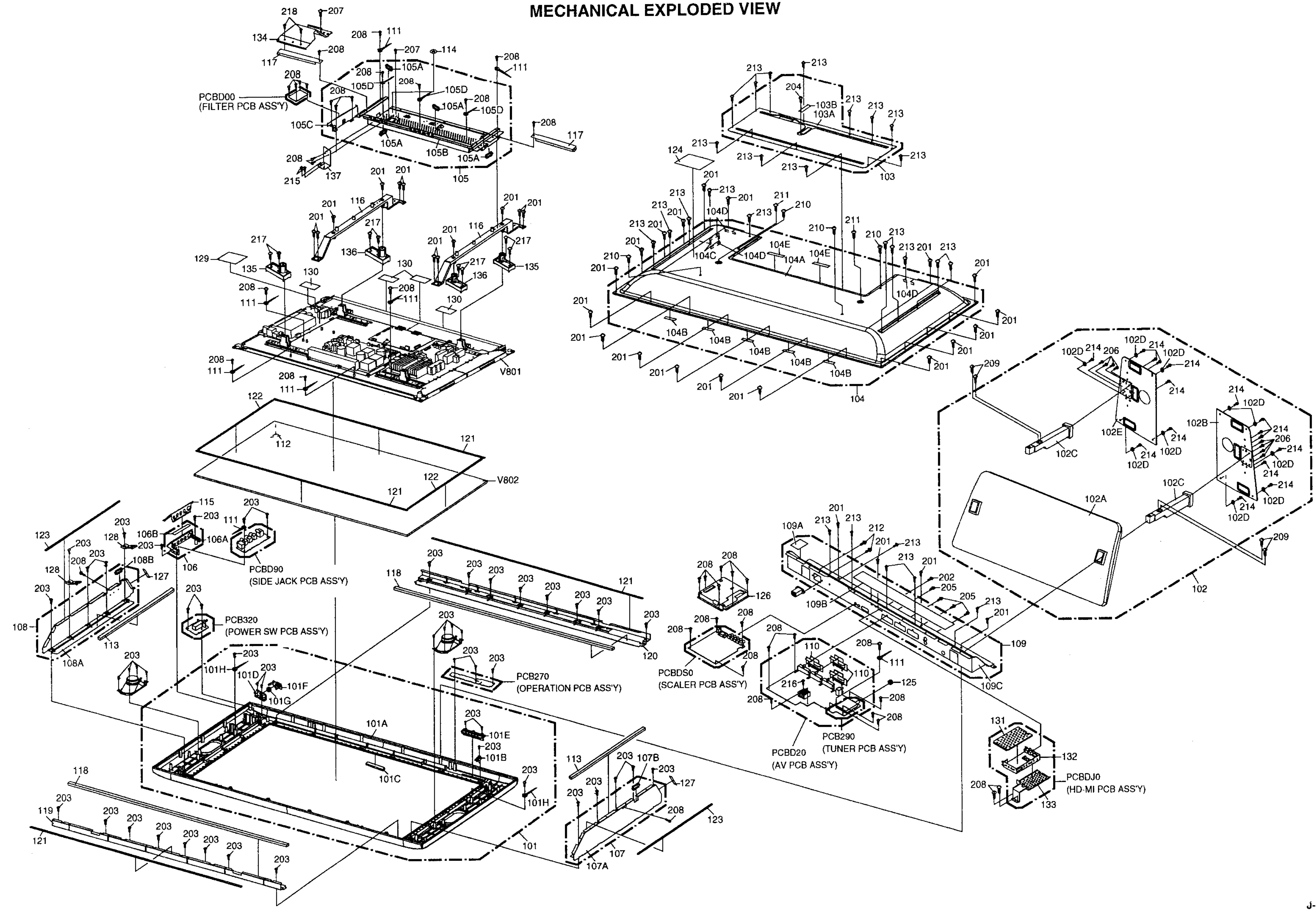


㊹

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

MECHANICAL EXPLODED VIEW



218
207
134
117
208
111
207
114
105A
105D
105C
105B
105
PCBD00
(FILTER PCB ASS'Y)
137
215
117
116
201
217
136
135
129
130
V801
122
112
121
V802
123
128
106B
106A
106
115
203
PCBD90
(SIDE JACK PCB ASS'Y)
108B
127
108
108A
113
PCB320
(POWER SW PCB ASS'Y)
101H
101D
101F
101G
101A
101E
101B
101C
101
PCB270
(OPERATION PCB ASS'Y)
118
119
120
107B
107
107A
213
204
103B
103A
103
124
104D
104C
104E
104A
104B
104
210
211
209
102D
214
206
102E
102B
102C
102A
102
109A
109B
109C
109
212
202
205
126
PCBDS0
(SCALER PCB ASS'Y)
110
216
125
PCBD20
(AV PCB ASS'Y)
PCB290
(TUNER PCB ASS'Y)
131
132
133
PCBDJ0
(HD-MI PCB ASS'Y)

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
101	7A7010170A	FRONT CABI ASS'Y
101A	701WPJ1396	CABINET,FRONT
101B	713WPA0365	GLASS,LED
101C	7232020787	BADGE,BRAND
101D	738WPA0171	STOPPER,BUTTON
101E	738WPB0069	BUTTON,FRAME
101F	738WPB0061	BUTTON,POWER
101G	743WKA0040	SPRING,BUTTON
101H	899EFBA002	WIRING-CLIP
102	7A7040010A	STAND ASS'Y
102A	704WPB0011	STAND
102B	761WSA0307	ANGLE,STAND(R)
102C	761WSB0019	FRAME,BOTTOM
102D	800WRA0006	CUSHION,LEG
102E	761WSA0308	ANGLE,STAND(L)
103	7G7610029A	COVER,BACK ASS'Y
103A	761WSB0014	COVER,BACK
103B	702WPAA893	COVER,CONNECTOR
104	7A7020059B	BACK CABI ASS'Y
104A	702WSB0127	CABINET,BACK
104B	800WQ0A120	FELT,SHEET
104C	8965TS2045	CUSHION W6/H2/L45
104D	8965TS2095	CUSHION W6/H2/L95
104E	890MP2401B	TAPE 100x12
105	7G7520019A	ANGLE,PCB ASS'Y
105A	709WPA0038	HOLDER,CORD
105B	762WSA0069	ANGLE,PCB
105C	762WSA0062	ANGLE,CENTER
105D	899EFBA002	WIRING-CLIP
106	7A7010171A	PLATE,JACK-SIDE ASS'Y
106A	711WPA0234	PLATE,JACK-SIDE
106B	7230008061	SHEET,JACK-SIDE
107	7G7520016A	SHIELD,MAIN-L ASS'Y
107A	762WSA0057	SHIELD,MAIN-L
107B	709WPA0038	HOLDER,CORD
108	7G7520014A	SHIELD,MAIN-R ASS'Y
108A	762WSA0058	SHIELD,MAIN-R
108B	709WPA0038	HOLDER,CORD
109	7G7610032A	PLATE,JACK ASS'Y
109A	7230008062	SHEET,AC INLET
109B	7230008049	SHEET,JACK
109C	761WSB0021	PLATE,JACK
110	761WSA0212	SHIELD 21PIN
111	899EFBA002	WIRING-CLIP
112	7230008052	SHEET,POWER LABEL
113	800WFA0080	CUSHION
114	7260000353	SHEET,EARTH MARK
115	752WSA0510	SHIELD,JACK-SIDE
116	761WEA0002	FRAME,MAIN
117	761WSA0315	ANGLE,SHIELD
118	800WFA0079	CUSHION
119	762WSAA006	SHIELD,MAIN-TOP
120	762WSAA007	SHIELD,MAIN-BOTTOM
121	8965TS2A15	CUSHION W6/H2/L1015
122	8965TS2550	CUSHION W6/H2/L550
123	8965TS2710	CUSHION W6/H2/L710
124	7222022706	SHEET,RATING
125	743WKAA011	SPRING TUNER
126	752WSA0529	SHIELD,SCALER
127	8965TS1060	CUSHION W10/H10/L60
128	752WSA0519	SPRING,EARTH
129	890MP2401A	TAPE 50x35
130	890201FR50	TAPE 100x50
131	752WSA0413	HDMI SHIELD,COVER
132	752WSA0414	HDMI SHIELD,BOTTOM
133	762WSA0060	ANGLE,HDMI
134	752WSA0549	SHIELD,PLATE
135	761WPA0409	HOLDER,PANEL 1
136	761WPA0410	HOLDER,PANEL 2
137	761WSA0286	ANGLE,PANEL
201	8117540A6U	SCREW TAP TITE(B0) TRUSS 4x16
202	810213080U	SCREW,PAN M3x8
203	8110630A0U	SCREW TAP TITE(P) BRAZIER 3x10
204	810763080U	SCREW TAP TITE(S) BRAZIER 3x8
205	810923080U	SCREW TAP TITE(B) BIND 3x8
206	810A140A0U	SCREW,WASHER(A) M4x10
207	810C14080U	SCREW WASHER C 4x8
208	810B13080U	SCREW,WASHER(B) M3x8
209	810B150B0U	SCREW,SEMS(B) 5x20
210	810B150A0U	SCREW,SEMS(B) 5x10
211	810B140A0U	SCREW,SEMS(B) 4x10
212	810233080U	SCREW,FLAT M3x8
213	810F23060U	SEMS(F)-R BIND 3x6
214	8165140A6U	SCREW,TAPPING (BO) 4x16
215	810763060U	SCREW TAP TITE(S) BRAZIER 3x6
216	81091308OU	SCREW TAP TITE(B) WH7 3x8
217	810A14080U	SCREW,WASHER(A) M4x8
218	810F13080U	SEMS(F) 3x8
---	7230008050	SHEET,CARTON
---	791WHA0117	LAMI,BAG
---	791WHA0118	LIGHTRON,SHEET
---	792WHA0634	PACKAGE,TOP
---	792WHA0635	PACKAGE,BOTTOM
---	793WCD1658	GIFT,BOX BOTTOM
---	793WCD1710	GIFT,BOX TOP
---	794WHAA003	HANDLE or
	794WHA0006	HANDLE
---	A3W103B975	INSTRUCTION BOOK KIT
---	J3W10301A	INSTRUCTION BOOK(G)
---	J3W10310A	INSTRUCTION BOOK(CZ)
---	J3W10311A	INSTRUCTION BOOK(F)
---	J3W10314A	INSTRUCTION BOOK(H)
---	JB5ND400	POLYBAG INSTRUCTION(RED CAUTION)

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		RESISTORS		
R3820	R3X28BR33J	R,METAL OXIDE	0.33 OHM 3W	
⚠ R3900	R0G302155K	RC	1.5M OHM 1/2W	
		CAPACITORS		
C3801	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3802	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3810	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3825	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3826	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3900	P2122B684M	CMP	0.68 UF 275V ECQUL	
		DIODES		
D105	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D109	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D300	D28R11FS20	DIODE	EC11FS2-TE12L	
D302	D28R1QS040	DIODE	EC31QS04-TE12L	
D303	D28R1QS040	DIODE	EC31QS04-TE12L	
D304	D28R1QS040	DIODE	EC31QS04-TE12L	
D305	D28R1QS040	DIODE	EC31QS04-TE12L	
D308	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77	
D802	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D803	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D804	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D805	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D901	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D2201	0021E9Q010	LED	LTL-1BEFJ-002A	
D3206	D28R1QS040	DIODE	EC31QS04-TE12L	
D3207	D28R1QS040	DIODE	EC31QS04-TE12L	
D3601	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3602	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D3603	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3604	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3605	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3609	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3613	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3801	D1VT001330	DIODE,SILICON	1SS133T-77	
D3802	D28T21DQN4	DIODE,SCHOTTKY	21DQ04N-TA2B1	
D3804	D28T0ERB20	DIODE,RECTIFIER	10ERB20-TA1B2	
D3806	D2WXN40050	DIODE,SILICON	1N4005-EIC	
D4205	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4206	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4207	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4208	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4209	D1VT001330	DIODE,SILICON	1SS133T-77	
D4210	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4301	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D4302	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
		ICS		
IC101	I56F07137A	IC	OEC7137A	
IC102	I9UF032290	IC	PST3229NR	
IC104	S3W103BE01	MEMORY DATA	AT24C256N-10SU-2.7	
IC300	I0QJP21510	IC	NJM2151AV	
IC301	I1MFPA2020	IC	TA2024-ASE	
IC801	I56K04A710	IC	R8J66604A71FP	
IC901	I0UF015010	IC	MM1501XNRE	
IC902	I0UF015010	IC	MM1501XNRE	
IC904	I19FF341C0	IC	MSP3410G-QA-C12-001	
IC2101	IFSK0883C0	IC	MST9883C-LF-110	
⚠ IC3201	I07F0C0WF0	IC	BA00BC0WFP-E2	
⚠ IC3202	I07F0C0WF0	IC	BA00BC0WFP-E2	
IC3601	I1KF98D330	IC	KIA78D33F	
IC3602	I1KF98D330	IC	KIA78D33F	
IC3604	I0QJ045800	IC	NJM4580M(TE1)	
IC3605	I5PF099930	IC	SII9993CTG100	
IC3606	S3W103BE02	MEMORY DATA	BR24L02F-WE2	
IC3607	I1FF043340	IC	CS4334-KSZR	
IC3608	S3W103BE03	MEMORY DATA	BR24L32F-WE2	
IC3611	ICMF0E58R0	IC	SST89E58RD2-40-C-TQJE	
IC3612	I5CF01G080	IC	SN74AHC1G08DCKR	
IC3801	I1LF010100	IC	AL1010	
⚠ IC3804	I0GA9XF010	IC	PQ070XF01SZH	
IC3805	I1KA78R090	IC	KIA278R09PI	
IC4201	I01F05853B	IC	AN15853B-E1	
IC4202	I0UF015010	IC	MM1501XNRE	
		ICS		
IC4203	I0UF015010	IC	MM1501XNRE	
IC4204	I0QF025840	IC	NJM2584AM(TE1)	
IC4205	I0CF040530	IC	CD74HC4053PWR	
IC4301	I0UF015010	IC	MM1501XNRE	
IC4302	I0UF015010	IC	MM1501XNRE	
IC4304	I0QF02534V	IC	NJM2534V(TE2)	
IC4305	I0QF02534V	IC	NJM2534V(TE2)	
IC7201	IFKJ0LM850	IC	DTC34LM85AL	
IC8102	I05FE13080	IC	TB1308FG(DRY,EL)	
IC8103	I0UF015010	IC	MM1501XNRE	
IC8150	I0QF02534V	IC	NJM2534V(TE2)	
IC8151	I0QF02534V	IC	NJM2534V(TE2)	
IC8152	I0QF02534V	IC	NJM2534V(TE2)	
		TRANSISTORS		
Q101	TNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK	or
	TNYJC05001	COMPOUND TRANSISTOR	DTC124EKAT146	
Q102	T27T030180	FET	2SK3018T106	
Q103	T27T030180	FET	2SK3018T106	
Q105	TPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK	or
	TPYJC05001	COMPOUND TRANSISTOR	DTA124EKAT146	
Q300	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q301	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q302	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q801	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q802	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q901	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q902	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q2101	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q3205	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3206	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q3207	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3208	TNAAB05003	COMPOUND TRANSISTOR		
Q3603	T27T030180	FET	2SK3018T106	
Q3604	T27T030180	FET	2SK3018T106	
Q3605	T27T030180	FET	2SK3018T106	
Q3606	T27T030180	FET	2SK3018T106	
Q3607	T27T030180	FET	2SK3018T106	
Q3608	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK	
Q3609	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3610	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3611	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3612	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3613	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3801	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3806	TJ7M50P030	FET	RSS050P03_TB	
Q4200	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4201	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q4203	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4205	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4206	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4207	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4208	T27T030180	FET	2SK3018T106	
Q4209	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4210	T27T030180	FET	2SK3018T106	
Q4211	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4212	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4213	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4215	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4216	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4217	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
TRANSISTORS				
Q4218	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4219	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4221	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4225	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4226	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4229	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q4230	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q4232	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q4233	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q4301	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q4302	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4304	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q4305	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q8101	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q8102	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q8103	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q8105	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q8106	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
COILS &TRANSFORMERS				
L300	021W0G100M	COIL	10 UH	
L301	021W0G100M	COIL	10 UH	
L302	021W0G100M	COIL	10 UH	
L303	021W0G100M	COIL	10 UH	
L901	02167F100J	COIL	10 UH	
L902	02167F270J	COIL	27 UH	
L903	02167F100J	COIL	10 UH	
L904	02167F100J	COIL	10 UH	
L2101	0216S8220K	COIL	F 22 UH	
L2102	0216S8220K	COIL	F 22 UH	
L2103	0216S8470K	COIL	F 47 UH	
L2106	0216S45R6J	COIL	5.6 UH	
L2107	0216S8220K	COIL	F 22 UH	
L3601	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00	
L3602	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00	
L3603	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00	
L3604	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00	
L3801	02167E100K	COIL	R6-1 10 UH	
L3802	02167E220K	COIL	R7 22 UH	
L3803	02167E220K	COIL	R7 22 UH	
L3804	02167E220K	COIL	R7 22 UH	
L3805	0214646R8M	COIL	6.8 UH	or
	0214644R7M	COIL	4.7 UH	
L3806	021404150M	COIL	50A 15 UH	
L3807	02167E100K	COIL	R6-1 10 UH	
L3809	0214646R8M	COIL	6.8 UH	or
	0214644R7M	COIL	4.7 UH	
L3810	02167E100K	COIL	R6-1 10 UH	
⚠ L3900	029X000138	COIL,LINE FILTER	SN12-500	
⚠ L3901	029X000138	COIL,LINE FILTER	SN12-500	
L4200	021LA6220J	COIL	22 UH	
L4202	02167F470J	COIL	47 UH	
L4203	02167F470J	COIL	47 UH	
L4206	02167F470J	COIL	47 UH	
L4207	02167F470J	COIL	47 UH	
L4209	021LA6220J	COIL	22 UH	
L4210	021LA6220J	COIL	22 UH	
L4211	021LA6220J	COIL	22 UH	
L4212	021LA6220J	COIL	22 UH	
L4213	021LA6220J	COIL	22 UH	
L4214	021LA6220J	COIL	22 UH	
L4219	02167F100J	COIL	10 UH	
L4220	02167F100J	COIL	10 UH	

REF. NO.	PART NO.	DESCRIPTION	
COILS &TRANSFORMERS			
L4224	02167F100J	COIL	10 UH
L4225	02167F470J	COIL	47 UH
L4226	02167F470J	COIL	47 UH
L4227	021LA6220J	COIL	22 UH
L4228	021LA6220J	COIL	22 UH
L4229	021LA6220J	COIL	22 UH
L4232	02167F100J	COIL	10 UH
L4236	02167F470J	COIL	47 UH
L4301	0216S8470K	COIL	F 47 UH
L4306	0216S8220K	COIL	F 22 UH
L4307	0216S8220K	COIL	F 22 UH
L7201	0216S8470K	COIL	F 47 UH
L7202	0216S8470K	COIL	F 47 UH
L7203	0216S8470K	COIL	F 47 UH
L8102	0216S8470K	COIL	F 47 UH
L8103	0216S8470K	COIL	F 47 UH
L8104	0216S8470K	COIL	F 47 UH
L8105	0216S8220K	COIL	F 22 UH
L8150	0216S8470K	COIL	NLCV32T-470K-PF
JACKS			
J3601	060J421037	RCA JACK	MTJ-032-05A-32-FE
J3602	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4200	0602131008	HEADPHONE JACK	HSJ0913-01-140
J4203	060J411034	RCA JACK	MSP-242V2-01NI-FE_LF
J4204	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4205	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4206	063D700010	JACK	MDC-012V1-A_LF
J4207	060J401104	RCA JACK	MTJ-032-03A-30FE
J4208	060J401106	RCA JACK	MTJ-032-03A-32FE
J4209	060J401105	RCA JACK	MTJ-032-03A-31FE
J4210	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4301	060J131019	HEADPHONE JACK	MSJ-2000B_AG(O87)
J4302	060J421037	RCA JACK	MTJ-032-05A-32-FE
J4303	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4304	060J421044	RCA JACK	MTJ-032-05A-50-FE
J4305	060J421043	RCA JACK	MTJ-032-05A-29-FE
J4306	060J421030	RCA JACK	MTJ-032-05A-31-FE
SWITCHES			
⚠ SW500	0530105019	SWITCH	ESB92S22B
SW2201	0504101T34	SWITCH,TACT	EVQ21505R
SW2202	0504101T34	SWITCH,TACT	EVQ21505R
SW2203	0504101T34	SWITCH,TACT	EVQ21505R
SW2204	0504101T34	SWITCH,TACT	EVQ21505R
SW2205	0504101T34	SWITCH,TACT	EVQ21505R
SW2206	0504101T34	SWITCH,TACT	EVQ21505R
P.C.BOARD ASSEMBLIES			
PCB270	A3W103B270B	PCB ASS'Y	CEE125A
PCB290	A3W103B290B	PCB ASS'Y	CEE128A
PCB320	A3W103B320B	PCB ASS'Y	CEE126A
PCBD00	A3W103BD00B	PCB ASS'Y	CEE124A
PCBD20	A3W103BD20B	PCB ASS'Y	CME069A
PCBD90	A3W103BD90B	PCB ASS'Y	CEE127A
PCBDJ0	A3W103BDJ0B	PCB ASS'Y	CED011A
PCBDS0	A3W103BDS0B	PCB ASS'Y	CEE087A
MISCELLANEOUS			
B801	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B802	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B803	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B804	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B805	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B2101	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B3201	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3202	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3203	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3204	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3205	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3206	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3207	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3601	024HC36001	CORE,BEADS	HCB2012K-600T25
B3602	024HC36001	CORE,BEADS	HCB2012K-600T25
B3603	024HC36001	CORE,BEADS	HCB2012K-600T25
B3604	024HC36001	CORE,BEADS	HCB2012K-600T25
B3608	024HC36001	CORE,BEADS	HCB2012K-600T25
B3609	024HC36001	CORE,BEADS	HCB2012K-600T25
B3610	024HC31022	CORE,BEADS	FCM2012H-102T04
B3611	024HC31022	CORE,BEADS	FCM2012H-102T04
B3801	024HT03553	CORE,BEADS	W5RH3.5X5X1.0

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
MISCELLANEOUS				
B4200	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2	
B4204	024AC5601F	CORE,BEADS	BLM18BD601SN1D	
B4205	024AC5601F	CORE,BEADS	BLM18BD601SN1D	
B4206	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2	
B4207	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2	
B4208	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4209	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4210	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4300	0246C51024	CORE,BEADS	MMZ1608R102CT	
B4301	0246C51024	CORE,BEADS	MMZ1608R102CT	
B4302	0246C51024	CORE,BEADS	MMZ1608R102CT	
B4303	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4304	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4305	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4306	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4307	0246C51024	CORE,BEADS	MMZ1608R102CT	
B4308	0246C51024	CORE,BEADS	MMZ1608R102CT	
B4309	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4310	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4316	0246C51024	CORE,BEADS	MMZ1608R102CT	
B6002	024AC5601F	CORE,BEADS	BLM18BD601SN1D	
B6511	024AC5601F	CORE,BEADS	BLM18BD601SN1D	
B7201	024AC5600E	CORE,BEADS	BLM18BB600SN1D	
BT001	141R004016	BATTERY,MANGAN	GR03X-SP2	or
	1412004013	BATTERY,MANGAN	R03(AB)2PXGPI	
BT002	141R004016	BATTERY,MANGAN	GR03X-SP2	or
	1412004013	BATTERY,MANGAN	R03(AB)2PXGPI	
CD001	06E2YB0003	CABLE	YAF11-1188N	
CD301	06CU138101	CORD,CONNECTOR	CU138101	
CD303	06CU12A301	CORD,CONNECTOR	CU12A301	
CD803	06CUZV5501	CORD,CONNECTOR	CUZV5501	
CP101	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P	
CP102	069S2A0629	CONNECTOR PCB SIDE	A2001WV2-10P	
CP103	069S270629	CONNECTOR PCB SIDE	A2001WV2-7P	
CP300	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK	
CP301	069S130419	CONNECTOR PCB SIDE	A2502WV2-3P	
CP303	069S120419	CONNECTOR PCB SIDE	A2502WV2-2P	
CP801	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+	
CP802	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+	
CD2201	06CU23A001	CORD,CONNECTOR	CU23A001	
CD3601	06CU1K1403	CORD,CONNECTOR	CU1K1403	
CD3800	06CUU37101	CORD,CONNECTOR	CUU37101	
CD3807	06CU2B1501	CORD,CONNECTOR	CU2B1501	
CD3808	06CUU37101	CORD,CONNECTOR	CUU37101	
⚠ CD3810	120G054801	CORD,AC	0G054801	
CD3822	06CU1A2401	CORD,CONNECTOR	CU1A2401	
CD3823	06CU1B2401	CORD,CONNECTOR	CU1B2401	
CD3831	06CU012202	CORD,CONNECTOR	CU012202	
CD3832	06CUU21001	CORD,CONNECTOR	CUU21001	
CD4201	06CU28A002	CORD,CONNECTOR	CU28A002	
CD4202	06CU257901	CORD,CONNECTOR	CU257901	
CD4203	122H0T0801	CORD,JUMPER	2H0T0801	
CD4204	122H0U0802	CORD,JUMPER	2H0U0802	
CD4205	06CU25A103	CORD,CONNECTOR	CU25A103	
CD4206	122A312101	CORD,JUMPER	2A312101	
CP2200	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P	
CP2201	069S250639	CONNECTOR PCB SIDE	A2001WR2-5P	
CP2203	069S230639	CONNECTOR PCB SIDE	A2001WR2-3P	
CP3201	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P	
CP3601	069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA	
CP3604	069S290639	CONNECTOR PCB SIDE	A2001WR2-9P	
CP3800	069432001A	CONNECTOR PCB SIDE	3-176976-1	
CP3807	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P	
CP3808	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD	
CP3822	069S1A0019	CONNECTOR PCB SIDE	A2501WV2-10P	
CP3823	069S1B0019	CONNECTOR PCB SIDE	A2501WV2-11P	
CP3831	064D1A0008	EMI FILTER	06GEEG3Q(02)	
⚠ CP3900	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD	
⚠ CP3901	069432001A	CONNECTOR PCB SIDE	3-176976-1	
CP4200	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P	
CP4201	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P	
CP4202	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P	
CP4203	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+	
CP4204	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+	
CP4205	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK	
CP4301	069S1K0019	CONNECTOR PCB SIDE	A2501WV2-20P	
CP4302	0694S15017	CONNECTOR PCB SIDE	1-1734344-1	

REF. NO.	PART NO.	DESCRIPTION	
MISCELLANEOUS			
CP6001	06CK7D0301	CORD,CONNECTOR	TWG-P13P-A1
CP6002	06977DM020	CONNECTOR PCB SIDE	127301113K2
CP7206	069HTR001A	CONNECTOR PCB SIDE	FI-TWE31PB-VF
ELD001	124116281A	EYE LET	XRY16X28BD
ELD002	124120301A	EYE LET	XRY20X30BD
NR801	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR802	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR803	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR804	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR805	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR806	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR807	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR2101	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2102	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2103	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2104	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2105	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2106	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR7201	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR7202	110P4220M4	R,NETWORK	4D03WGJ0220T5E
OS2200	0773071006	REMOTE RECEIVER	RPM7138-SH8
⚠ SP301	0701016002	SPEAKER	EAS12D175B
⚠ SP302	0701016002	SPEAKER	EAS12D175B
TM101	076R0MB010	TRANSMITTER	R56-0972
TR301	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR302	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR4205	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR4206	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR6501	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR6502	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
⚠ TU6001	0163Y03003	RF UNIT	TAFM-W122D_C
V801	09HF142002	PDP	S42AX-YD01
V802	09JG142001	PDP FILTER	PM00UZ004
X101	100WT01611	CRYSTAL	HC-49/U-S
X801	100YT05401	CRYSTAL	FCX-03
X901	100CT01803	CRYSTAL	HC-49/U-S
X3601	100CT01101	CRYSTAL	HC-49/U-S
X8101	100CT3R536	CRYSTAL	HC-49/U

RESISTOR

RC.................. CARBON RESISTOR

CAPACITORS

CC.................. CERAMIC CAPACITOR
CE.................. ALUMI ELECTROLYTIC CAPACITOR
CP.................. POLYESTER CAPACITOR
CPP................. POLYPROPYLENE CAPACITOR
CPL................. PLASTIC CAPACITOR
CMP................. METAL POLYESTER CAPACITOR
CMPL............... METAL PLASTIC CAPACITOR
CMPP............... METAL POLYPROPYLENE CAPACITOR

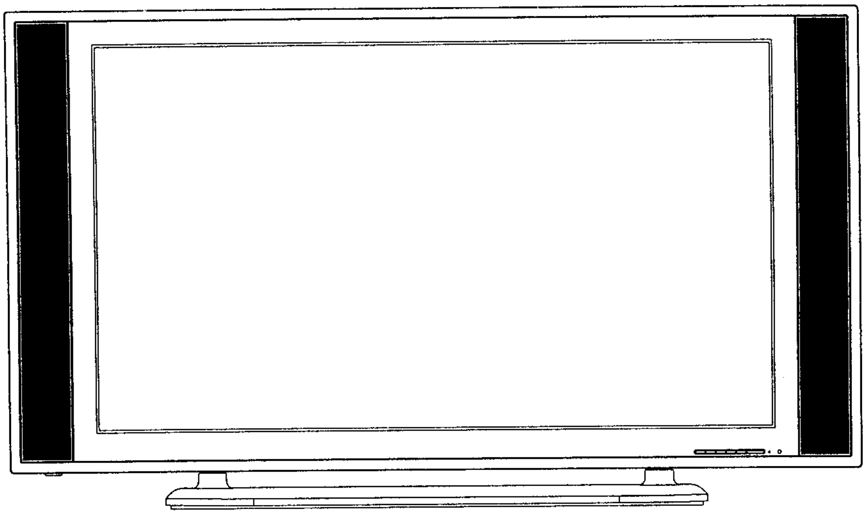
SPEC.NO.	M3W1-03B
O/R NO.	U5X3515

ORION

TV-42400 SI

SERVICE MANUAL

42" PLASMA COLOR TELEVISION



SUPPLEMENT
CHASSIS CODE A

This SUPPLEMENT must be used together SERVICE MANUAL for TV-42200 SI.
All other test and repair procedures are as shown in the ORIGINAL MANUAL.
Please file this SUPPLEMENT with the ORIGINAL VERSIONS.

Design and specifications are subject to change without notice.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO	TV-42200 SI		TV-42400 SI	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
101	7A7010170A	FRONT CABI ASS'Y	7A701A636A	FRONT CABI ASS'Y
101A	701WPJ1396	CABINET,FRONT	701WPJD221	CABINET FRONT
101E	738WPB0069	BUTTON,FRAME	738WPBA159	BUTTON FRAME
124	7222022706	SHEET,RATING	722202A964	SHEET RATING
---	7230008050	SHEET,CARTON	723000D212	SHEET CARTON
---	JB5ND400	POLYBAG INSTRUCTION(RED CAUTION)	JB5XD500	POLYBAG INSTRUCTION(RED CAUTION)
---			JB5XD600	POLYBAG INSTRUCTION(RED CAUTION)
---	J3W10301A	INSTRUCTION BOOK(G)	J3W10601A	INSTRUCTION BOOK(G)
---	J3W10310A	INSTRUCTION BOOK(CZ)	J3W10610A	INSTRUCTION BOOK(CZ)
---	J3W10311A	INSTRUCTION BOOK(F)	J3W10611A	INSTRUCTION BOOK(F)
---	J3W10314A	INSTRUCTION BOOK(H)	J3W10614A	INSTRUCTION BOOK(H)
---	A3W103B975	INSTRUCTION BOOK KIT	A3W106B975B	INSTRUCTION BOOK KIT

SPEC. NO.	M3W1-06B
O/R NO.	U613501

ORION

TV-42200 SI

SERVICE MANUAL

COLOR TELEVISION RECEIVER

REVISION 1
CHASSIS CODE B

CHASSIS CODE	FUNCTION
A	-
B	CINEMA MODE

Please file the revision with the original version.

ADD : CINEMA MODE

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	CHASSIS CODE A		CHASSIS CODE B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
----	J3W10301A	INSTRUCTION BOOK(G)	J3W12001A	INSTRUCTION BOOK(G)
----	J3W10310A	INSTRUCTION BOOK(CZ)	J3W12010A	INSTRUCTION BOOK(CZ)
----	J3W10311A	INSTRUCTION BOOK(F)	J3W12011A	INSTRUCTION BOOK(F)
----	J3W10314A	INSTRUCTION BOOK(H)	J3W12014A	INSTRUCTION BOOK(H)
----	A3W103B975	INSTRUCTION BOOK KIT	A3W120B975	INSTRUCTION BOOK KIT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	CHASSIS CODE A		CHASSIS CODE B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
TM101	076R0MB010	TRANSMITTER R56-0972	076R0MM010	TRANSMITTER R56-1201

WHEN REPLACING EEPROM (MEMORY) IC

INIT	CHASSIS CODE A	CHASSIS CODE B
	DATA	DATA
19	00	AA
1F	08	88
2B	00	2C
2C	00	31
2D	00	51
2E	00	58
2F	00	5A
30	00	62
31	00	63
32	00	69
33	00	6A
34	00	77
35	00	7E
36	00	95
DA	01	02
DC	2C	26
DE	74	78
DF	6C	6B
E0	A4	AC
E2	C1	D6
E4	F6	FA
E5	8C	0A
E6	84	86
E7	84	86
EA	15	05
EC	92	A6

SPEC.NO.	M3W1-20B
O/R NO.	U633504